

Capability Statement



Engineering Pty Ltd





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About Us

Founded in 1988, JSIS Engineering (JSIS) is an Australian owned, diversified engineering solutions company that is committed to developing and maintaining long term business relationships. Quality, Environmental and Safety accredited to ISO 9001, ISO 14001 and ISO 45001 respectively, JSIS prides itself on past achievements and a future commitment to the health, safety, quality and environmental sustainability of our people and our communities.

Throughout history JSIS has provided both national and international clients with market leading polyurethane products; water management solutions; mechanical and wash plant maintenance; plastic and other engineering services and solutions for a broad range of cliental. Predominately servicing the mining, construction, ports and sugar industries, our client portfolio includes companies such as BHP Billiton, Anglo American, Glencore, Newcrest Mining, Bechtel, John Holland and many other Principals or their Tier 1, 2 and 3 partners.

Our polyurethane manufacturing with Fire Retardant Anti Static (FRAS) compliance to MDG3608 meets the ever evolving industry and safety demands of the Australian underground mining companies, their teams and their communities. With support from our supply chain network, JSIS's reputation continually grows in professionalism, reliability and cost effectiveness by providing customers with mutually beneficial and profitable problem-solving engineering solutions, delivered in a safe, timely and equitable manner. Furthermore, by maintaining and holding distribution and supply agreements with reputable brands, JSIS continues to deliver quality products and services to our end users.

Continually challenged, JSIS works in collaboration with the cliental by listening and understanding their needs, whilst delivering on-time hassle free engineering solutions that add value, minimise downtime, and maximise cost efficiencies across a broad range of products and services.

JSIS delivers polyurethane manufactured products, onsite services, sales, purchasing and specialised engineering solutions through a team of multi-skilled personnel including engineers, project managers and supervisors, fitters, boilermakers, riggers, doggers, polyethylene and polyurethane technicians.



"Committed to developing and maintaining long-term business relationships"

Directors



Duncan Sandford

Director

Duncan started his Diesel Fitting apprenticeship at BHP's Goonyella Mine in 1986 and then transferred to BHP's Transport division where he completed his Bachelor of Applied Science in Marine Engineering and his Certificate in Engineering Class 1. Duncan then furthered his education by completing his Bachelor of Engineering Mechanical, at Monash University.

Previous career highlights include 22 years as Engineering Superintendent and Company Director of Daltug Pty Ltd.

Darren Anderson

Director

Darren is a Diesel Fitter by trade who completed his apprenticeship in 1986. He recently served as an Executive Director, Executive Chairman and Non-Executive Director of HRL Holdings up until February 2020. Formerly, he was the Executive Director and Chief Operating Officer of Diversified Mining Services Ltd.

Previous career highlights include 15 years as Founder and Managing Director of the Anderson Group of Companies, which grew from a single person operation in Mackay to a Company in excess of 300 employees and 12 operating divisions across both Queensland and New South Wales that serviced the Australian and international coal industries.



Duncan Sandford and Darren Anderson

Manufactured Polyurethane Products

With an extensively equipped Mackay based facility, the team at JSIS Engineering (JSIS) has provided both national and international customers with an extensive range of market leading polyurethane (PU) products for a variety of industries and applications. A versatile premium quality material, PU holds corrosive benefits across a broad range of chemicals and applications and is immune to the corrosive effects of water. PU's inherent flexibility and durability makes it a viable replacement for certain metal components and a substitute or sacrificial layer of product that can be used throughout a variety of operations. JSIS only uses the highest quality PU products from Australia's leading Polyurethane supplier, ERA Polymers.

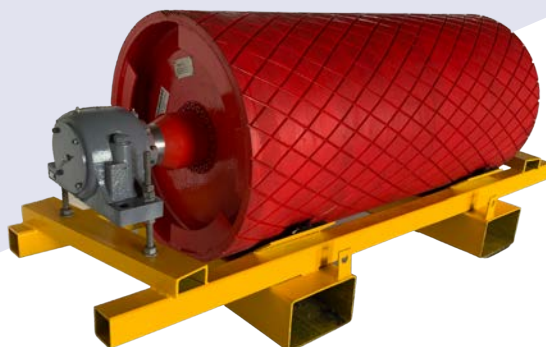
JSIS MANUFACTURES
>80%
OF QLD'S FRAS 3608 USAGE

Specialising in Fire Retardant Anti Static (FRAS) rated PU products, JSIS holds MDG 3608, FRAS compliant certificates. These certificates certified by a NATA Accredited Test Facility are for the manufacture of Minor Conveyor Accessories, Ventilation Sheeting and Non-Defined Applications of PU products as outlined in the MDG 3608 guidelines which is expected by the ever-evolving industry and safety demands of Australia's underground mining companies. FRAS is added to PU mixes during the manufacturing process as it reduces the potential for the PU product to sustain a flame or generate a static charge that could become an ignition source, hence it being widely used and chosen by the underground mining industry. JSIS consistently pours more than 34,000 kilograms of PU annually, which accounts for greater than 80% of the Queensland market in FRAS 3608 usage across hand mix/hand poured operations.

With PU's uses being virtually limitless, JSIS has found that the manufacturing of custom-made PU products is regularly evident throughout monthly production schedules. JSIS supplies PU products to the open cut and underground mines, ports, sugar and other commercial industries, manufacturing an array of PU FRAS and non-FRAS rated products which include pulley & roller lagging, ventilation curtain & sheeting, dust suppression spray bars, mine vehicle accessories, conveyor belt accessories, tread plates & plugs, and miscellaneous items.

Historically JSIS has manufactured PU products across flexible duro scales of 60A to 95A and across rigid duro scales of 40D to 70D, with capabilities of producing products ranging in mass from 250 grams to 400 kilograms to meet customer requirements and demand.

By providing customers with fit for purpose workable solutions, JSIS looks forward to assisting you and your team with your next project and challenges you to seek opportunities throughout your business where PU products could pave way as a better alternative to those presently in place.



Manufactured Polyurethane Products

Benefits offered by Polyurethane versus Metal and Rubber

POLYURETHANE VS METAL

- Lightweight
- Noise Reduction
- Abrasion Resistance
- Less Expensive Fabrication
- Corrosion Resistance
- Resilience
- Impact Resistance
- Flexibility & Easily Mouldable
- Non-Conductive
- Non-Sparking

POLYURETHANE VS RUBBER

- High Abrasion Resistance
- High Cut & Tear Resistance
- Superior Load Bearing Capacity
- Thick Section Moulding without a Curing Gradient
- Colourability
- Oil Resistance
- Radiation Resistance
- Broader Hardness Range
- Castable Nature
- Ozone Resistance

*"If a mould can be made,
we can manufacture it"*



Onsite Services

Currently servicing the mining, construction, ports and sugar industries, JSIS Engineering (JSIS) can provide a wide range of onsite engineering services and solutions to a variety of industry sectors. JSIS prides itself on our commitment to safety and quality whilst being an adaptable, progressive and proactive company that provides repeated success to customers by delivering projects to the highest standards.

By utilising our team and equipment resources, JSIS can deliver engineering services and solutions including tailor made options that are suitable to a diverse range of environments. Thanks to our extensive industry experience and the accumulated knowledge of our dedicated onsite services teams, JSIS are experts when it comes to delivering water management solutions, along with mechanical and wash plant maintenance services.

The delivery of our onsite services and solutions across these industry sectors are carried out by our multi-skilled workforce who are experienced, trained, certified and accredited. With our company's first priority focusing on the health and wellbeing of all employees, our highly cohesive teams include engineers, project managers, supervisors, fitters, boilermakers, riggers, doggers and polyethylene technicians, share a continual focus as they work towards Zero Harm.

JSIS sets industry leading benchmarks in safety, quality, performance, reliability, responsiveness and flexibility. JSIS has a wide range of compliant purpose-built vehicles and equipment. This includes light vehicles, medium trucks with vehicle loading cranes, telescopic material handlers, pumps, generators $\leq 1000\text{KVA}$ and one of Australia's largest fleets of HDPE pipe butt and electrofusion welding machines capable of welding HPDE pipe and fitting up to 1000mm in diameter.

Historically water management systems and solutions supplied to our customers have included activities such as support, procurement, hiring, auditing, construction, maintenance, fabrication, relocation, welding and installation of piping systems. Dewatering activities include drainage, diversions, evaporation solutions, emergency repairs, infrastructure upgrades, general construction, pump and generator hire.

Furthermore, mechanical and wash plant maintenance supplied to our customers have included valve audits, servicing and installations, pump servicing and installations, conveyor pulley change outs, dust suppression works, screen changeouts, industrial tiling, general shutdown works' along with water and air piping system repairs, diversions, maintenance and upgrades.



"JSIS are experts
when it comes to delivering
water management solutions"



Sales & Purchasing

Our Sales and Purchasing department caters and supplies to both national and international clients. Handling many and varied requests from mining, construction, ports, sugar, council and other commercial industries, the department's customer base extends further to regular cattle, rural and marine cliental along with those home handy person/s.

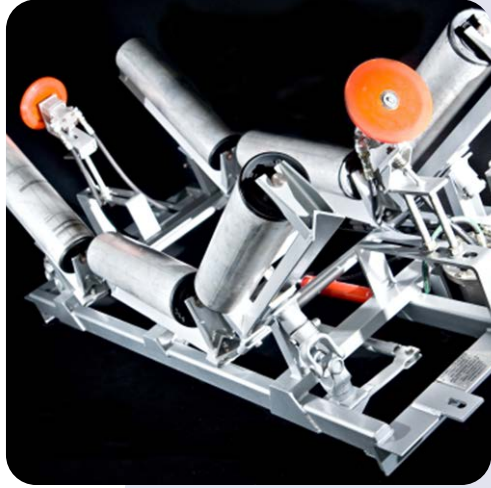
With support from our supply chain network, JSIS Engineering's (JSIS's) reputation continually grows in professionalism, reliability, and cost effectiveness by providing customers with mutually beneficial and profitable problem-solving engineering solutions. Furthermore, by maintaining and holding distribution and supply agreements with reputable brands, JSIS continues to deliver customers with quality on-time hassle free solutions that add value, minimise downtime, and maximise cost efficiencies across a broad range of products and services.

JSIS's team listen and deliver. Our supply meets with customer demand but more importantly strives to exceed customer needs and expectations. A stockist of safety products and industrial plastics, JSIS's stocked products include wheel chocks, vehicle safety flags/poles, corflute, acrylic, HDPE and polycarbonate sheeting. Additionally, offsite fabrication services are available for the supply of HDPE, carbon, galvanised and stainless steel, DICL, copper, cast iron, basalt, PVC, ABS and no-weld pipe and fitting systems, components, chutes, sumps, tanks or other infrastructure alternatives.

JSIS's procurement team has supplied irregular, unorthodox and in some instances revolutionary items or engineering solutions required by our growing base of clients. History has seen JSIS's procurement abilities deliver customers with solutions or items that are not only standard purchases, but those that were designed, developed, and then manufactured in order to meet customer requirements.



Specialised Engineering Solutions



Since 1988, JSIS Engineering (JSIS) has successfully delivered specialty and custom-built engineering solutions to a diverse range of end-users. Multi-faceted, JSIS offers and provides customers with numerous engineering solutions capable of tackling projects that may be seen by others as “beyond one’s reach”.

Whilst drawing on experience and creativity, JSIS offers attainable solutions by listening, researching, collaborating, planning, developing, designing, creating, trialling and altering engineering solutions until a workable, efficient and long-lasting manufacturable option presents.

Appreciating that each engineering solution can present its own set of unique challenges, rather than overlooking them, JSIS strives to provide customers with alternatives that have the potential to ultimately eliminate such challenges. An attribute that has seen our team supply customers with a growing list of specialty and custom-built products, which continues today.

Product examples have included:

- Vehicle Mounted Cable Reeler Trucks inclusive of removable, slewing and multipurpose options or capabilities
- Wharf Dock Fenders made from both Polyurethane and Industrial Plastics
- Conveyor Belt Rectifiers including JSIS's own “Hydro Tracker”
- Windsack Skids including galvanised poles and socks
- HDPE Water Purification Aquaponic Pontoons
- Polyurethane Dragline Bucket Resting Pads
- Polyurethane Dust Suppression Systems
- Polyurethane Shovel Dipper Door Stops
- Polyurethane Tugboat Fender Sacrificial Cover

In addition to the supply of speciality and custom-made products, JSIS's team can also provide other complementary services such as training manuals, safe work method statements, engineering certifications, compliance checks, inspections, on the job training and the like.





JSIS Engineering Pty Ltd

22-26 McCulloch Street North Mackay
QLD 4740 Australia

Tel: 07 4957 2799
Fax: 07 4953 5075
enquiries@jsis.com.au
www.jsis.com.au

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WWW.JAS-ANZ.ORG/REGISTER

