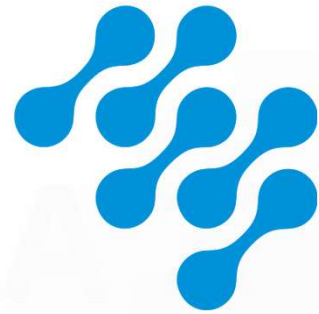




SOLARIS



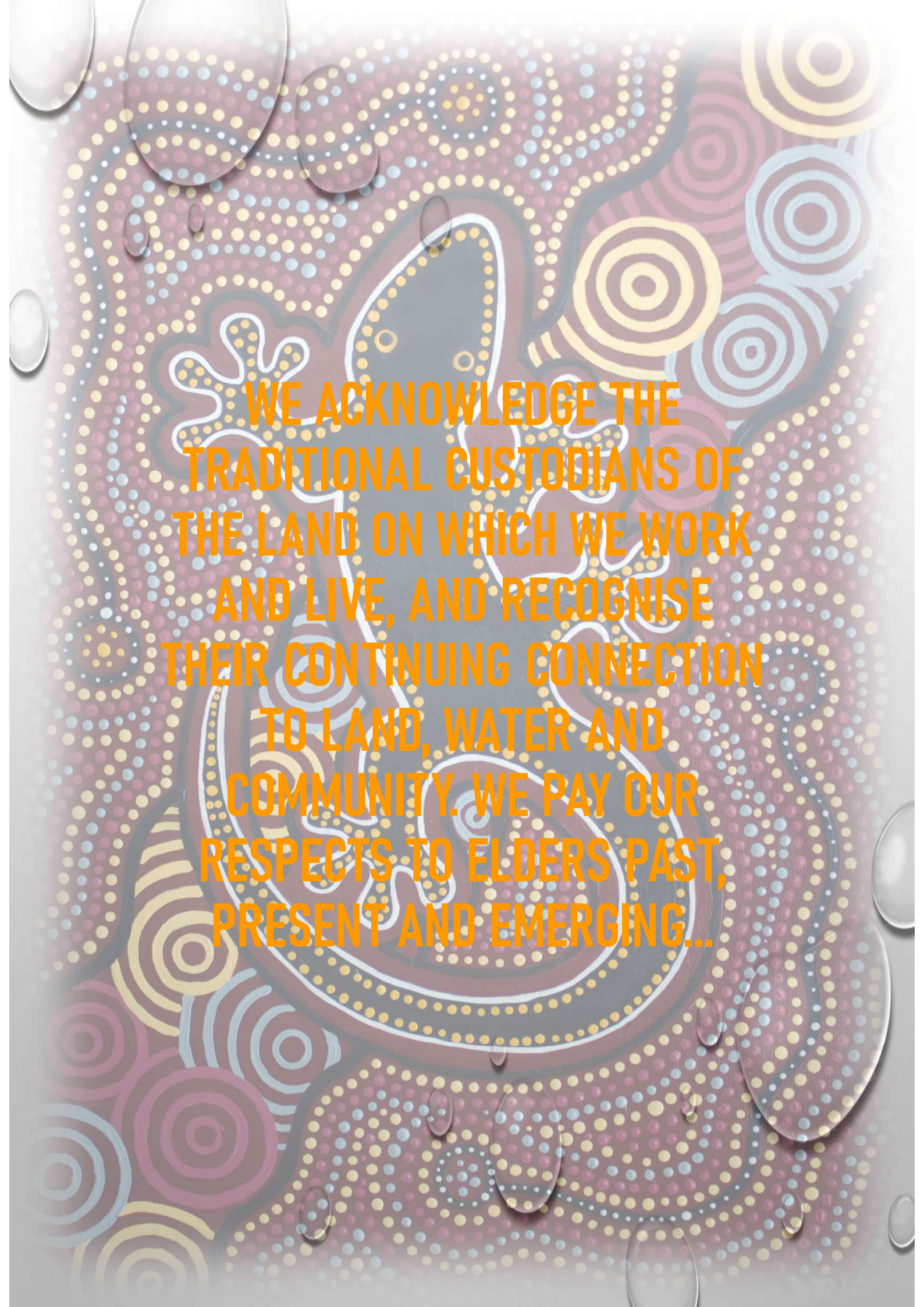
INNOVATION DESIGN ENGINEERING
AUSTRALASIA PTY. LTD.

**ONE TEAM... ONE IDEA... ONE GOAL...
LIMITLESS POSSIBILITIES...**

**ACHIEVING A COMPETITIVE
EDGE THROUGH EXCELLENCE
IN ENGINEERING, PRODUCTS,
SERVICES AND CONSULTING**

www.solarisidea.com.au
enquiry@solarisidea.com.au





**WE ACKNOWLEDGE THE
TRADITIONAL CUSTODIANS OF
THE LAND ON WHICH WE WORK
AND LIVE, AND RECOGNISE
THEIR CONTINUING CONNECTION
TO LAND, WATER AND
COMMUNITY. WE PAY OUR
RESPECTS TO ELDERS PAST,
PRESENT AND EMERGING...**



3D CAD DRAFTING SERVICES...

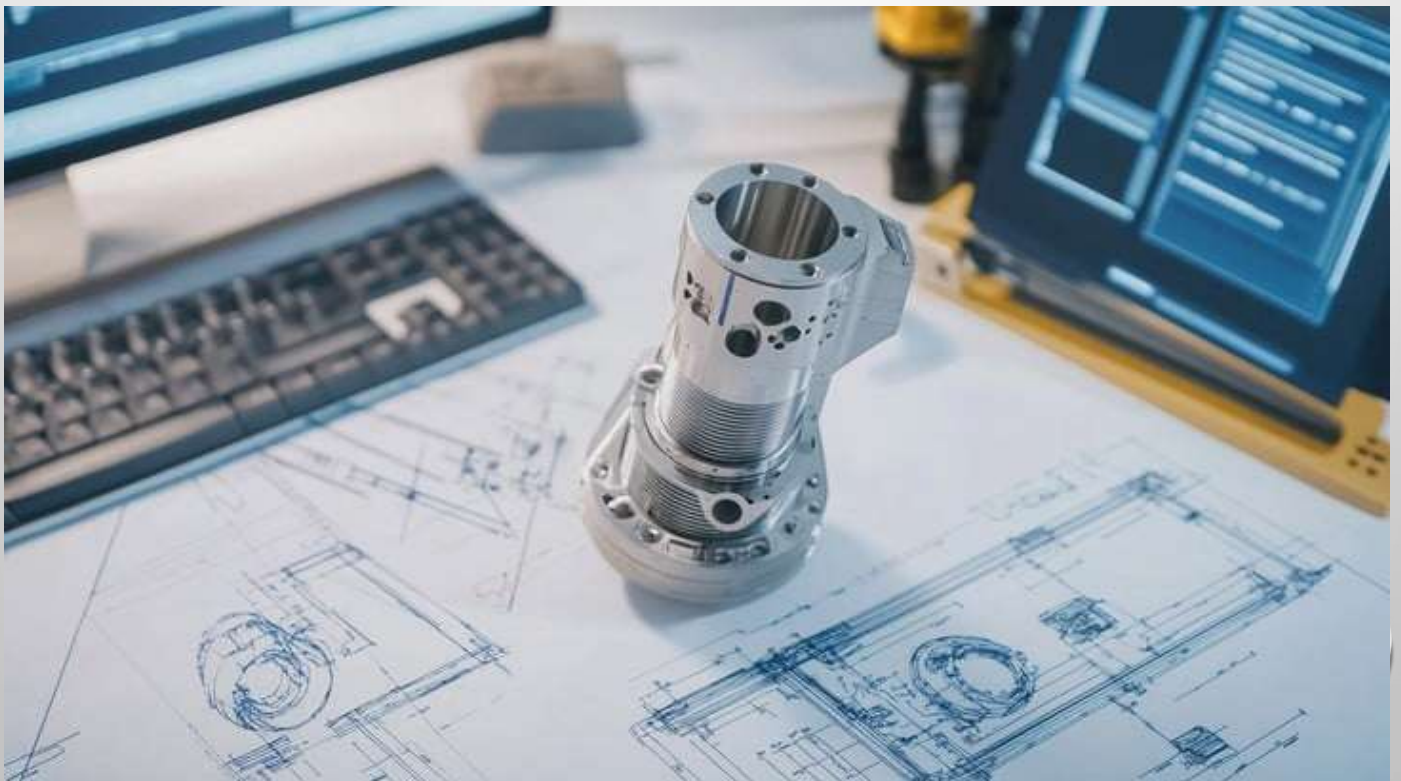
**Yes... We do 3d CAD
DeSign & DraFting**

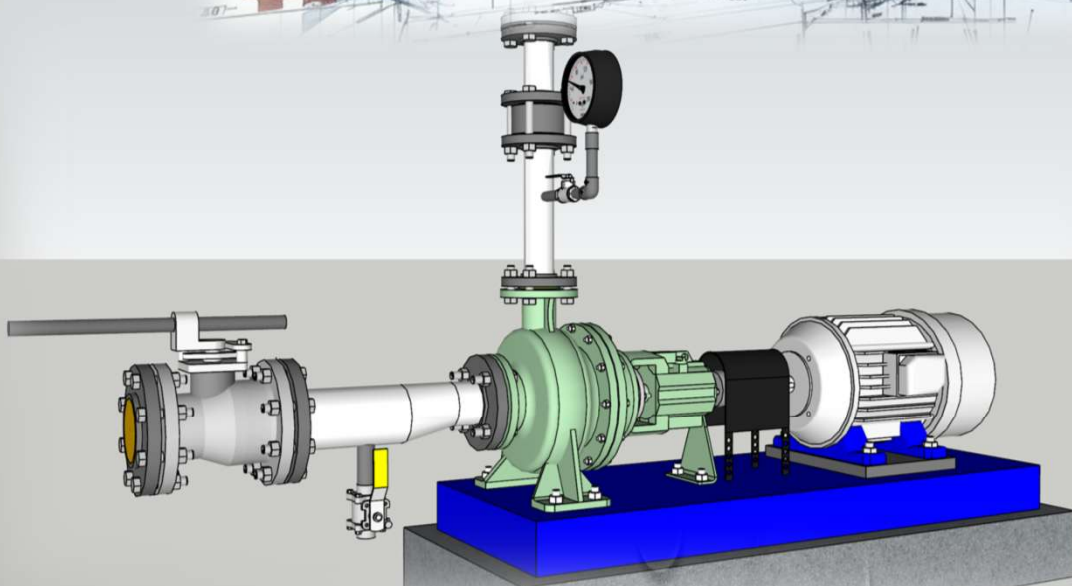
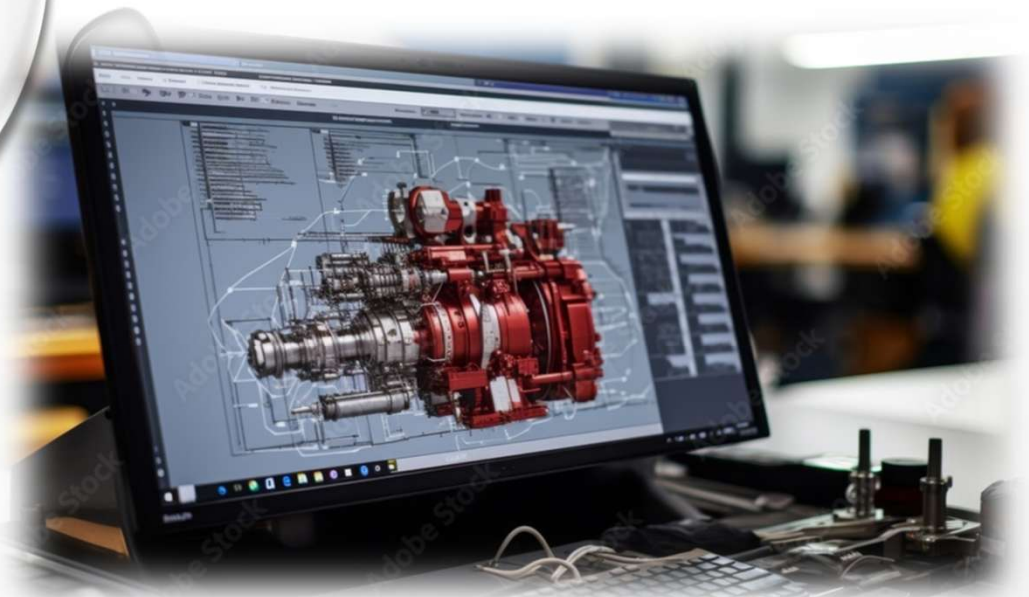
SolarisIDEA, we provide top-tier 3D CAD drafting services, supporting businesses across Sydney with precise and detailed designs. Our skilled team leverages the latest CAD technology to deliver accurate and efficient drafting solutions for various industries.

Our Capabilities Include:

- Precision Drafting: High-quality 3D CAD models that ensure accurate design representation and facilitate smooth project execution.
- Complex Assemblies: Expertise in drafting intricate assemblies for engineering, manufacturing, and construction projects.
- Design Optimization: Enhancing existing designs for improved performance, cost efficiency, and manufacturability.
- Cross-Industry Applications: Serving sectors including aerospace, automotive, architecture, and industrial machinery.
- Collaboration & Flexibility: Tailored services that integrate seamlessly with your project requirements and timelines.

With a focus on precision, innovation, and client satisfaction, SolarisIDEA is your trusted partner for 3D CAD drafting services in Sydney/Australia





3D LASER SCANNING, PLANT SURVEYING & REVERSE ENGINEERING...

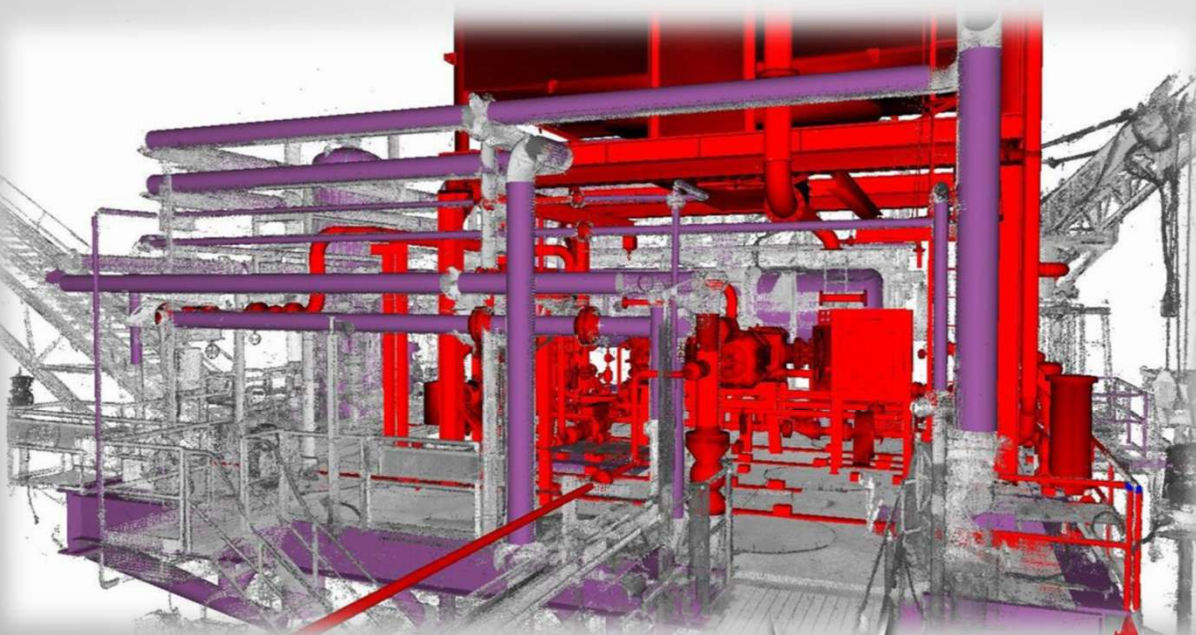
At SolarisIDEA, we specialize in delivering precise laser scanning, plant surveying, and reverse engineering services across Sydney, and soon whole Australia. Our advanced technologies and expert team provide accurate, reliable data for complex projects in various industries.

Our Capabilities Include:

- **Laser Scanning:** High-resolution 3D scanning for detailed and accurate digital models of structures and components.
- **Plant Surveying:** Comprehensive surveying services to capture precise as-built conditions, ensuring reliable documentation and planning.
- **Reverse Engineering:** Reconstructing accurate CAD models from physical parts for design improvements, repairs, and reproduction.
- **Data Integration:** Seamlessly integrating scanned data into existing workflows for efficient project management and execution.
- **Cross-Industry Expertise:** Serving sectors including Mining, Coal Terminal & Washery, Oil & Gas, Manufacturing, Construction, and Industrial Facilities.

With a commitment to precision, innovation, and excellence, SolarisIDEA is your trusted partner for laser scanning, plant surveying, and reverse engineering services in Australia.

REVERSE
ENGINEERING



SOLARIS
IDEA



3D MODELLING, VIRTUALIZING & RENDERING...

Engineering/Drafting team provides **3D Modelling**, Drafting, 3D Laser Scanning and Prototyping (3d printing) support to our design team... We use industry leading 3D Parametric modelling technologies, including **Autodesk Inventor**, Nastran, Ansys, Fusion360, SPACE GASS, Navisworks, Plant3D, AutoCAD, SolidWorks, TEKLA, and MicroStation...

We can provide 3D simulations for critical shutdown works or product testing... We can provide reviews in AR & VR, providing clients with a realistic 1:1 perspective of their project long before construction begins... Please ask for demonstration... Our Engineering Documentation is of the highest standard... We can provide drawings at every level of the engineering design process, from concept development to final shop drawings...



SOLARIS
IDEA

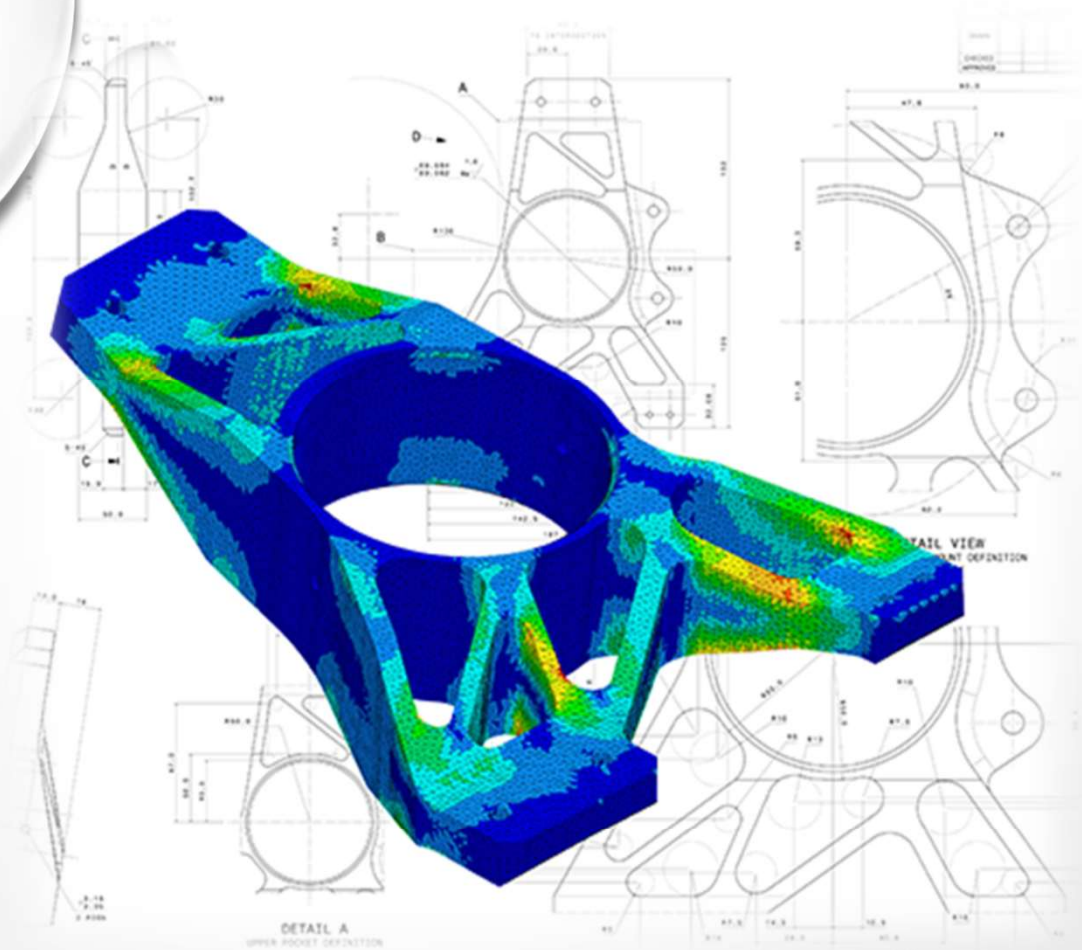


MECHANICAL ENGINEERING SERVICES...

SolarisIDEA has been delivering services to a **diverse array of clients**, including **public and private enterprises**, as well as governmental bodies and councils, across Australia and South Asia. We cater to a wide range of sectors, including heavy industry, mining, manufacturing, rail, and defence. Additionally, as a strategic partner to various engineering firms, we offer support in enhancing capabilities and improving productivity for other organizations... SolarisIDEA, we deliver comprehensive mechanical engineering services to clients across Sydney, ensuring innovative and efficient solutions tailored to your project needs. Our experienced engineers provide high-quality designs, analysis, and support for a wide range of industries. Our Capabilities Include:

- Custom Mechanical Design: Creating tailored mechanical systems and components that meet specific project requirements.
- Finite Element Analysis (FEA): Advanced simulation and analysis to optimize design performance and ensure reliability.
- Product Development: End-to-end support from concept design through to prototyping and production.
- Maintenance & Upgrades: Enhancing the performance and lifespan of existing systems with expert maintenance and retrofitting solutions.
- Industry Expertise: Serving diverse sectors including automotive, aerospace, manufacturing, and energy.

With a commitment to innovation, precision, and quality, SolarisIDEA is your trusted partner for mechanical engineering services in Australia.



INDUSTRIAL PRODUCT DESIGN, PROTOTYPING...

We excel in delivering cutting-edge industrial product design and prototyping services across Australia & Asia. Our experienced team collaborates closely with clients to transform **ideas into functional, market-ready products.**

Our Capabilities Include:

- Innovative Design Solutions: Crafting user-centric, aesthetically appealing designs that align with market demands.
- Rapid Prototyping: Utilizing advanced technologies to create accurate prototypes for testing and validation.
- End-to-End Support: From concept development to final production, we manage every step of the product design process.
- Cross-Industry Expertise: Serving diverse sectors, including consumer electronics, automotive, and industrial equipment.
- Sustainable Practices: Integrating eco-friendly materials and processes to minimize environmental impact.

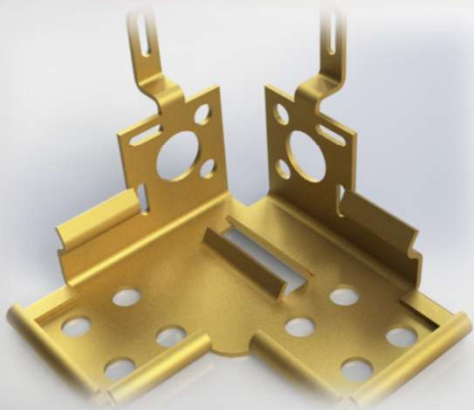
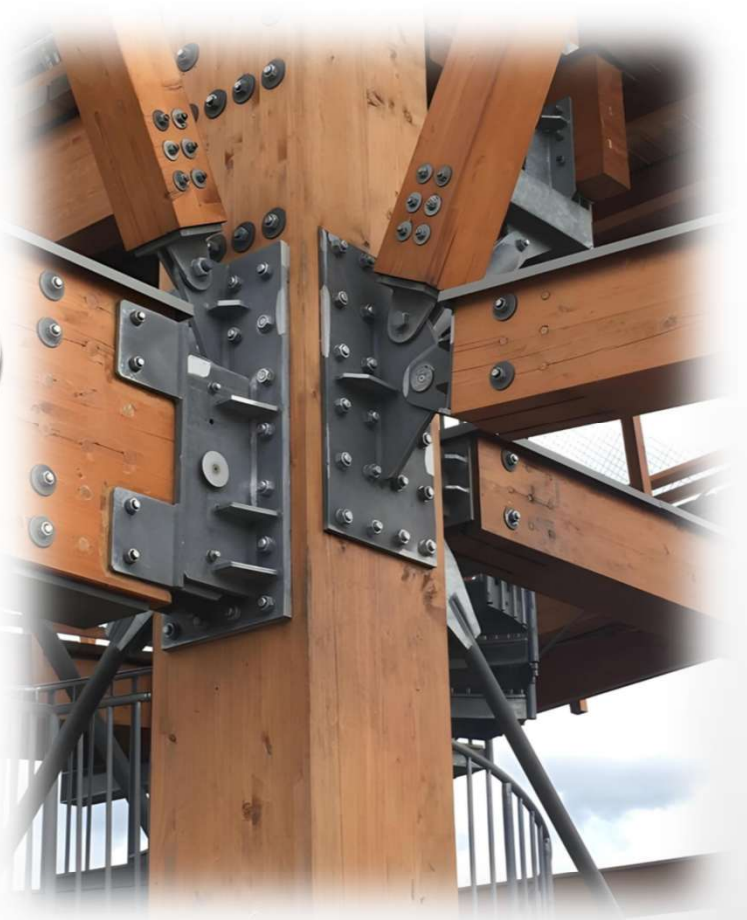
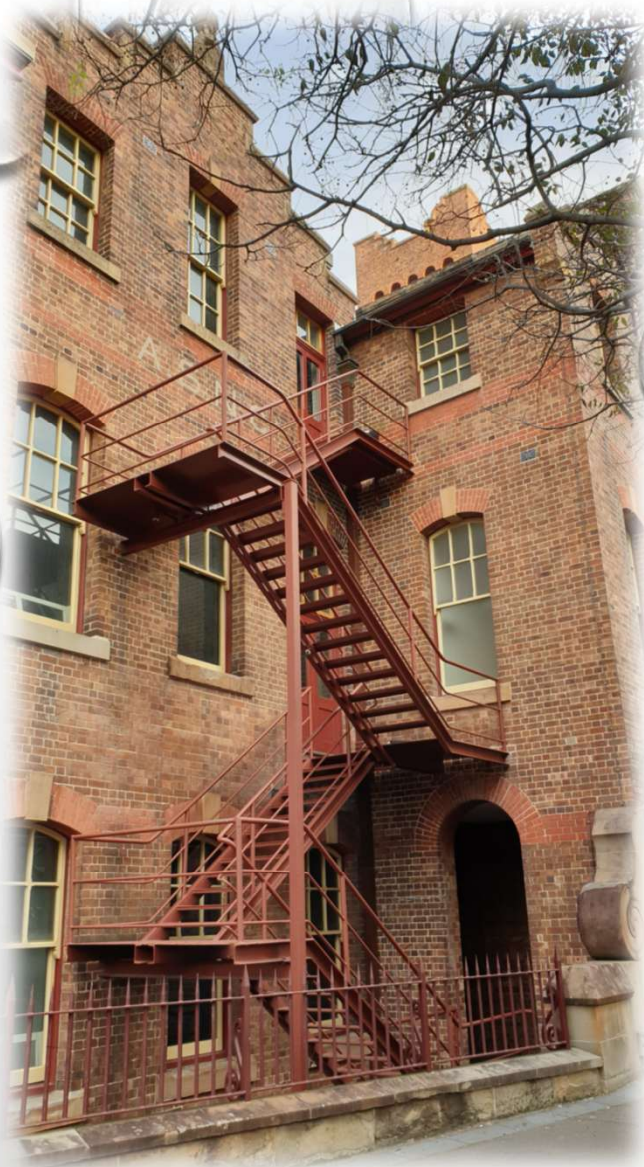
With a commitment to quality, innovation, and efficiency, SolarisIDEA is your reliable partner for industrial product design and prototyping in Australia

SHEET METAL DESIGN, DEVELOPMENT & FABRICATIONS...

Sheet Metal Design, Development & Fabrication basically involves turning flat sheets into new metal structures to suit a wide range of applications... Our process involves design, development, cutting, punching, folding, welding as well as assembling...

We've had a robust experience fabricating sheet metal in Australia over the years and our focus has always been on delivering precisely engineered products along with a superior customer experience...

The availability of advanced machinery and our use of state-of-the-art software mean we are always able to deliver projects that accurately meet our client needs and requirements. Our skilled metal craftsmen and the dedicated SolarisIDEA team are always prepared to collaborate with you on all types of sheet metal fabrications. We offer a wide variety of sheet metal products at highly competitive prices across Australia. From initial concepts to final shop drawings, we have everything you need right here ...



CNC MACHINING...

We provide high-quality CNC machining services across Australia. With a wide range of advanced CNC turning and milling machines, supported by the latest technology, we deliver customized parts with exceptional precision. Our capabilities extend to handling diverse projects across numerous industries. CNC machining is an ideal solution for prototyping, small-batch production, and low-volume manufacturing, offering precise cuts and a variety of material options. We also specialize in addressing urgent needs, such as the rapid repair of critical machinery components like fractured shafts, ensuring minimal downtime and maximum operational efficiency...



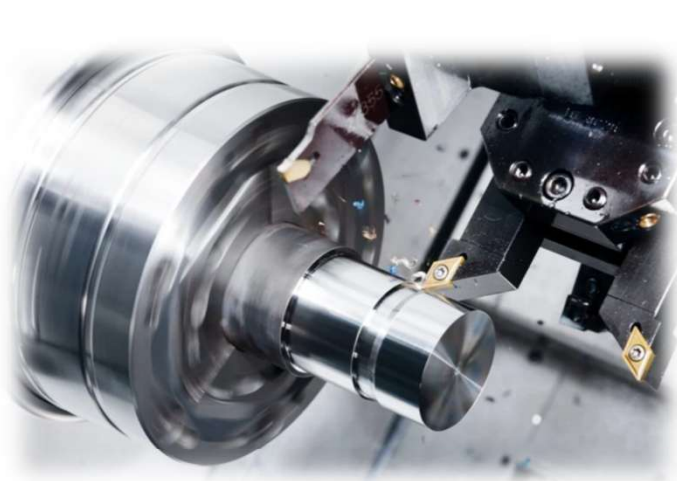
PLASTIC VACUUM MOULDING ...

At SolarisIDEA, we specialize in precision plastic vacuum moulding, offering innovative solutions to meet diverse manufacturing needs across Australia. Our advanced facilities and expert team ensure high-quality, custom-designed components for a wide range of industries, including automotive, healthcare, and consumer goods.

Our Capabilities Include:

- Custom Mould Design: Tailored solutions to meet specific project requirements.
- Prototyping & Production: From initial concept to full-scale manufacturing, we support your product's entire lifecycle.
- Material Expertise: Extensive knowledge in selecting the best plastic materials for durability, flexibility, and cost-effectiveness.
- Quality Assurance: Rigorous testing and quality control processes to meet Australian and international standards.
- Sustainability Commitment: Environmentally conscious practices, including material recycling and waste reduction.

With a commitment to excellence and innovation, SolarisIDEA is your trusted partner for all your plastic vacuum moulding needs in Australia.



CUSTOMER SATISFACTION...

100% CUSTOMER SATISFACTION OUR PROMISE YOUR PEACE OF MIND

We understand that true customer satisfaction goes beyond just fulfilling requirements; it involves actively listening, responding promptly to feedback, and providing solutions that align perfectly with the customer's needs. This slogan encapsulates our assurance that we will go the extra mile to ensure that every customer feels valued, supported, and completely satisfied with their experience. It's not just a goal—it's the standard we live by, ensuring that every client enjoys peace of mind knowing they are in the best hands. We take great pride in our well-established reputation for professionalism and excellence. Our achievements are the result of a collaborative and personalized approach that ensures every client receives tailored solutions to meet their specific needs. This commitment to quality and customer service has allowed us to build a strong base of repeat customers and achieve record levels of customer satisfaction. Our focus on understanding and exceeding client expectations is the foundation of our long-term success and continued growth in Australia.

TAILORED SOLUTIONS...

We partner with organizations of all sizes, offering tailored services to meet each client's unique needs. Our extensive range of engineering solutions includes expert consulting and customized options, with a strong focus on tackling complex projects that demand specialization and innovation...



SAFETY & RISK ENGINEERING...

Safety is more than a priority—it's the foundation of everything we do. In the highly technical field of mechanical engineering, we understand that safeguarding people, equipment, and the environment is essential to achieving operational success. Our dedicated Safety & Risk Engineering services are designed to mitigate risks, enhance operational safety, and ensure compliance with industry standards and regulations.

Our Services Include:

- 1. Hazard Identification & Risk Assessment (HIRA)**
Through comprehensive hazard identification and risk assessments, we help our clients recognize potential safety risks in mechanical systems, machinery, and processes. We employ advanced methodologies to assess and mitigate risks, ensuring the safety of both personnel and assets.
- 2. Failure Modes and Effects Analysis (FMEA)**
Our team conducts thorough FMEA studies to identify potential points of failure in systems and equipment. By analysing the causes and consequences of failures, we develop preventive measures to reduce downtime, enhance safety, and extend the life of machinery.
- 3. Mechanical Integrity and Reliability Audits**
We provide detailed mechanical integrity and reliability audits to ensure your systems are functioning optimally and safely. From pressure vessels and piping to rotating equipment, we assess the integrity of critical components to prevent unexpected failures and safety incidents.
- 4. Safety System Design & Implementation**
We specialize in designing and implementing safety systems that meet both regulatory requirements and operational needs. From fire suppression systems to safety interlocks and emergency shutdown systems, we ensure that your operations are equipped to handle potential hazards effectively.
- 5. Risk-Based Inspection (RBI)**
With our risk-based inspection services, we help you prioritize inspection and maintenance activities based on risk levels. This ensures a cost-effective approach to asset management while maintaining the highest safety standards.
- 6. Compliance with Industry Standards**
Our team stays up to date with all relevant safety standards, including ISO, OSHA, and local regulations. We work closely with our clients to ensure that every project meets or exceeds the required safety benchmarks.

PROJECT DESIGN, PLANNING & MANAGEMENT...

At we offer comprehensive Project Design, Planning, and Management services, ensuring that your mechanical engineering projects are executed seamlessly from concept to completion. Our integrated approach combines innovative design solutions with meticulous planning and expert project management to deliver high-quality results, on time and within budget.

Our Services Include:

- **Conceptual Design & Feasibility Studies**
Our engineering team collaborates with clients to develop innovative design concepts that align with their project goals. We conduct detailed feasibility studies, analyzing technical, economic, and operational aspects to ensure the viability of your project before full-scale development.
- **Detailed Engineering Design**
From mechanical components to complex systems, we provide thorough and precise engineering designs tailored to meet industry standards and client specifications. Our designs prioritize safety, efficiency, and reliability, ensuring robust solutions for your engineering challenges.
- **Project Planning & Scheduling**
A well-structured plan is essential for the success of any project. We develop comprehensive project plans, including detailed timelines, resource allocation, and critical milestones. Our planning process ensures efficient workflow and minimizes downtime, keeping your project on track.
- **Resource & Budget Management**
We understand the importance of staying within budget while maintaining quality. Our team manages resources effectively, optimizing labor, materials, and equipment to ensure cost-efficiency without compromising project objectives.
- **Procurement & Vendor Management**
We assist in procurement planning and vendor selection, ensuring that high-quality materials and services are sourced from trusted suppliers. Our vendor management strategies ensure timely delivery and adherence to project requirements.
- **Risk Management & Mitigation**
Every project faces potential risks, but our proactive risk management approach helps anticipate and mitigate them. We identify potential challenges early on and implement contingency plans to ensure smooth project execution with minimal disruptions.
- **On-Site Supervision & Quality Assurance**
Our project managers provide on-site supervision, ensuring that the design and specifications are followed to the letter. We maintain strict quality control processes, ensuring that all work meets the highest industry standards, resulting in durable, reliable systems.
- **Project Reporting & Communication**
Clear communication is key to successful project management. We provide regular progress reports, ensuring that clients are informed at every stage of the project. Our transparent approach allows for real-time adjustments and fosters collaboration throughout the project lifecycle.
- **Commissioning & Handover**
At the final stage of your project, we oversee the commissioning of systems and equipment, ensuring everything is operational and meets performance criteria. We also provide thorough documentation and training for smooth handover and ongoing maintenance.