



Redback Defence

Capabilities & Services

Your trusted Australian partner for precision engineering & sovereign defence.

Secure your supply chain and ensure mission success with Redback™ Drilling Tools & Manufacturing. Backed by the global strength of SGS and over 40 years of Australian precision engineering excellence in delivering mission-critical components, we are a vital contributor to Australia's defence industrial base. Operating manufacturing facilities in Wingfield, Moomba, and Toowoomba, our local production of high-precision, fit-for-purpose components provides you with:

- Unwavering assured Australian quality: Sovereign-certified manufacturing ensures components built to the highest standards, right here in Australia.
- Secured critical needs & reduces risk: Local production strengthens supply chain resilience and ensures timely delivery.
- Strengthen National Security: Partnering with us directly supports Australia's defence industrial base and local jobs.

Key defence manufacturing capabilities designed to meet your most demanding requirements

- Precision CNC manufacturing: Delivering high-tolerance components for complex needs.
- Comprehensive threading services: Standard, premium, repair, and recertification for reliable connections.
- API 6A Pressure component manufacturing: Ensuring safety and performance in wellhead applications.
- Robust welding and fabrication: Creating durable mechanical assemblies.
- Lifecycle management: Extending asset life through repair and overhaul solutions.
- Critical quality assurance: In-house NDT and hydrostatic testing for guaranteed integrity.
- Efficient threaded system services: Assembly and breakout for streamlined operation.

Solving your unique defence challenges with custom solutions

Leveraging our innovative approach, we design and manufacture specialist tooling, including the globally recognised Redback Roller Reamer for extreme environments. Our comprehensive engineering and drafting support delivers tailored solutions precisely targeting your critical Defence operational challenges. As a contributor to Australia's defence export agenda, we proudly support clients across North America, Europe, the UK, the Middle East, and Southeast Asia.

Comprehensive products & services supporting your critical operations

We offer a complete suite of services to support your critical operations, from manufacturing to maintenance and beyond.

- Precision machining & manufacturing: High-precision CNC turning and milling, multi-axis machining, and bespoke component manufacturing, for API 6A wellhead components.
- Advanced welding & fabrication: Coded welding, hard facing, general fabrication, and expert repair of worn components.
- Critical inspection & testing: In-house NDT (MPI, LPI, visual, hardness, FLUT) and hydrostatic pressure testing with full quality assurance and traceability, including downhole and OCTG equipment inspection and repair.
- Integrated engineering & design: Comprehensive 2D/3D drafting, API-compliant, general mechanical and structural engineering, and complete design and development packages.
- Industrial automation & systems: Expertise in cyber security for industrial systems, database and control system integration, functional safety system design (SIL studies), and the design, build, installation, and commissioning of process automation solutions.
- Enhanced business continuity via diverse capabilities: By offering a wide range of services in-house, we reduce reliance on multiple external vendors, contributing to a more secure and continuous supply chain for your critical operations.



Your assurance of quality and compliance

Our certifications provide you with the confidence and reliability you demand.

- Globally Recognised Standards: Certified to ISO 9001 (Quality), ISO 14001 (Environmental), and ISO 45001 (Occupational Health and Safety Management Systems), demonstrating our commitment to international best practices.
- API Q1 Compliance: Meeting the rigorous quality management system requirements of the American Petroleum Institute.
- Licensed Threading Excellence: Providing reliable and compliant repair and manufacturing of standard and premium OCTG threads (including Grant Prideco, Tenaris, JFE), backed by full material traceability and comprehensive QA documentation.

Why choose us?

For a sovereign, secure, and agile Australian manufacturing partner committed to your mission. Backed by SGS's global strength and decades of expertise, we deliver reliable, high-precision components and innovative solutions with unwavering quality, ensuring dependable local support for your critical projects.

Contact us

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