

# BRADKEN



Proud to Belong







# VISION

## Proud to Belong.

We believe our Vision applies to all of Bradken’s stakeholders, including our employees, our customers, our community and our shareholders.

We hope you come to share our Vision with us.

# MISSION

To maximise our shareholders’ worth in a manner consistent with our Vision and Values.

# BUSINESS MODEL

The creation of differentiated consumable products for the resources industry and sale of their value to our customers.

# VALUES

We Value People Who:

- Are health, safety and environmentally responsible
- Have exemplary personal integrity
- Enjoy a balanced lifestyle
- Strive for continuous improvement in all that they do
- Are customer focused
- Possess courage and loyalty
- Are highly motivated
- Work together for common goals
- Respect the individual rights of others

ensuring Bradken is a good corporate citizen.

# Our Global Business



Bradken® is a global manufacturer and supplier of differentiated capital and consumable products to the mining and construction, rail and transit, energy and general industrial markets. The driving force behind our Business is our firm commitment to innovation and continuous improvement. Our aim is to provide our customers with value through the creation of specialised product solutions. We are proud of our innovative ethos, and encourage you to discuss with us your Company’s vision for the future so we can work with you to make it a reality.

This collaborative approach sets Bradken apart from our competitors. With 90 years’ experience in the foundry business, the accumulated wealth of knowledge and depth of expertise in our workforce enables us to offer our customers a full service offering with design, manufacturing, maintenance and support services ultimately providing improved operational outcomes and safer work practices.

We have a truly global footprint with over 34 manufacturing facilities throughout Australia, New Zealand, the United Kingdom, China, the United States of America, Canada, Malaysia and Indonesia supported by a worldwide network of sales and service facilities.

# Highlights

Established	1922
Revenue	\$1.4 billion (F12)
Corporate Head Office Location	Newcastle, NSW, Australia
Regional Head Office Locations	Newcastle, Australia Kansas City, United States of America Sheffield, United Kingdom Xuzhou, China Santiago, Chile Jet Park, South Africa
Foundry and Manufacturing	34 facilities worldwide
Sales and Service	Globally
Workforce	6,200 (at 1Q13)
Listed	Australian Securities Exchange (BKN)
Management Systems	SAI Global, Quality System Standard, ISO 9001:2008
Safety	Bradken’s 21 Step Safety Plan
Environment	SAI Global, Environmental System Standard, ISO 14001 (at all major manufacturing facilities)



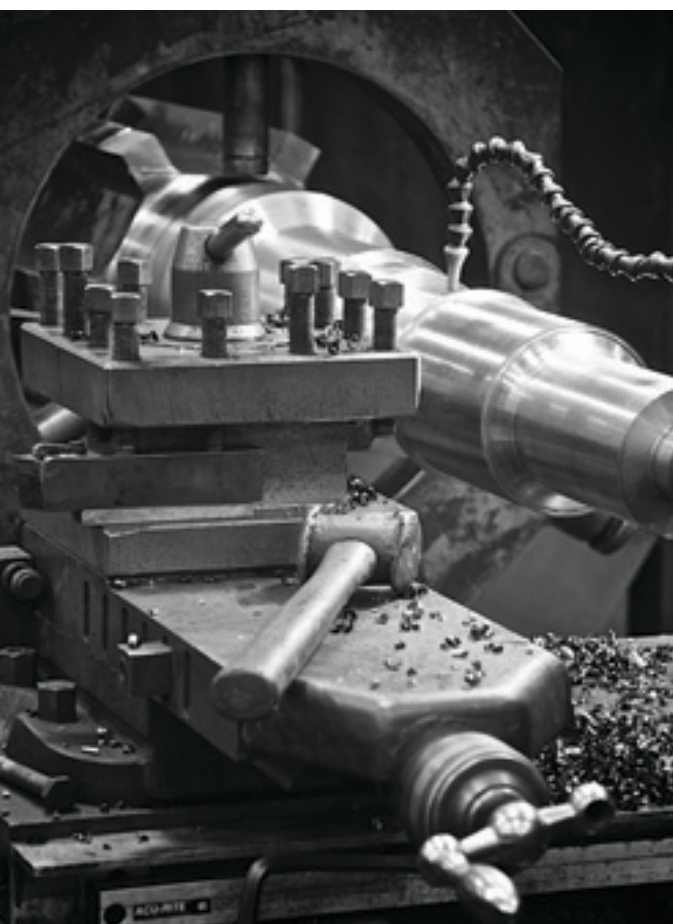
**1922**  
**BRADFORD  
KENDALL**  
LIMITED INCORPORATED  
AS A COMPANY



## Business Development History

Today, Bradken is one of the world's largest combined foundry and heavy engineering groups and a leading ferrous-casting company. It is a far cry from its humble beginnings, which were grounded in true entrepreneurial spirit and a dedicated commitment by its founders, two BHP steelworks employees (Leslie Bradford and Jim Kendall) who got lucky at the races one day in 1920 and pledged the £15,000 winnings to start a steel foundry business.

In 1922 Bradford Kendall Limited was incorporated as a company and built its first steel foundry in Sydney to service the Australian steel, rail and resources markets. Over the ensuing years the business grew with the Australian economy in particular benefiting from developments in the mining and resources sector. In 2004 Bradken, a regional Australia based business with a revenue of \$460 million, was listed on the Australian Securities Exchange (BKN) with the strategic intent of globalising the business in line with the growing demand for mining consumable products.



**2004**  
**BRADKEN LIMITED**  
**LISTED ON THE**  
**AUSTRALIAN**  
**SECURITIES**  
**EXCHANGE**

2005

Expanded presence in the regional Mineral Processing market with the acquisition of Roche Castings Foundry. Opened new Mining Services facility in Mackay, AUS servicing the Queensland coal market.

2006

Expanded into the European market with the acquisition of Firth Rixon Castings Ltd in the UK. Acquired a 20% share of Americast Technologies, Inc in the USA. Acquired ferrous scrap business in Cannington, AUS.

2007

Expanded into China with the opening of a new manufacturing facility in Xuzhou. Acquired Australian foundry supply company Cast Metal Services (CMS).

2008

Acquired the remaining 80% share of Americast Technologies, Inc. giving Bradken a significant presence in the North American market.

2010

Entered the Canadian Oil Sands resources market with the acquisition of ALMAC Machine Works Inc.

2011

Expanded the footprint of the Mineral Processing business in North America, South America and Africa with the acquisition of Norcast Wear Solutions in Canada making Bradken the leading global supplier of mill liners. Expanded the Fixed Plant business in Australia with the acquisition of Wear Protect Systems Pty Ltd and Australian and Overseas Alloys Pty Ltd.

2012

Further expanded presence in China with the construction of a state-of-the-art greenfield foundry in Xuzhou for the manufacture of mining consumables.

**2012**  
**BRADKEN**  
**CONSTRUCTS**  
**STATE-OF-THE-ART**  
**FOUNDRY IN CHINA**



Since 2004 Bradken's activities have been concentrated on the execution of our globalisation. Looking forward, our commitment to this strategy remains strong as we continue to expand our range of core products and services globally both through organic growth and complimentary acquisitions.



# Mining

Bradken provides the Mining industry with a wide range of wear resistant products, differentiated consumables and capital equipment for all types of mobile and fixed plant equipment.

Bradken is proud to boast a large number of patented products in this market. Our design capabilities and on-site knowhow combine to offer customers in this market a full service solution.

## Fixed Plant

Bradken focuses on the creation of customised wear solutions and the sale of their value to our customers.

Using our **DRIVE™** (Discover, Review, Implement, Verify, Engineer) process we work alongside our customers to identify their needs and develop products and services to deliver sustainable customer satisfaction through continuous improvement in wear performance.



We offer a range of engineering, design, modelling, condition monitoring and supply management services and have capabilities to develop and manufacture a solution for any project. Our extensive product range is continuously expanding to provide total wear solutions.

We are a leading manufacturer of chromium carbide lined components and piping systems for the mining, oil sands, forestry, construction and general manufacturing sectors. Our patented technology for circumferential lining of pipe elbows is unique to Bradken in North America.

Our products include:

- Chromium carbide overlay (**Duaplate®**)
- White iron block brazed to mild steel (**Duablock®**)
- Ceramic/polyurethane (**Uroceramic™**)
- Ceramic/rubber (**Rubatile™**)
- Nickel chromium white iron (**Nihard**)
- Quench and tempered (**Q&T Steel**)
- Epoxy - ceramic filled epoxy wear compounds
- Cast Product - access to multiple foundries and cast alloys
- Smart Liners - in situ wear monitoring
- Piping fabrication

## Ground Engaging Tools and Buckets

Bradken designs, manufactures and supplies a comprehensive range of customised Ground Engaging Tools (GET), associated wear parts and buckets to fit front-end loaders, face shovels and hydraulic excavators.

With a number of fabrication facilities strategically located in key mining regions throughout the world, Bradken is able to provide both in-house and on-site maintenance and refurbishment services to complement its extensive range.

Our products include:

- Points and Adapters (**Twistlok™**, **Penetrator™**)
- Lip and Wing Shrouds (**Defender™**)
- Surface Mining Buckets (**Avalanche™**)
- Underground Mining Buckets (**Pioneer™**)



## Dragline Buckets and Rigging

Bradken manufactures and supplies an extensive range of customised rigging packages and buckets to suit a variety of dragline machines.

Our **Harmonise™** Dragline Rigging solution is a collection of innovative designs with a revolutionary approach to the upper hoist rigging assembly. The design utilises the Integrated Socket Equaliser (ISE), an innovation that replaces five components and reduces rigging height by more than a metre (3ft 3 3/8 in).

Our products include:

- Dragline Buckets
- Dragline Rigging solutions (**Harmonise™**, **APT™**)

## Crawler Systems

Bradken is a world leader in Crawler System design and manufacture for mining class electric shovels and hydraulic excavators. Our reputation for high quality, dependable products has been proven over decades supplying to mining markets around the world.

Today, Bradken is the undercarriage component supplier of choice for the majority of Original Equipment Manufacturers.

Bradken incorporates significant design enhancements into its range of undercarriage components to help overcome the rigors of climate and geology encountered in mining operations around the world.

By focusing on our customer's undercarriage requirements we are able to offer effective, site-specific solutions, employing superior components that provide consistent service with minimal maintenance.

Our products include:

- Crawler Shoes (**Opti-Trak®**, **Evolution®**)
- Sprockets
- Idlers
- Load Rollers
- Return Rollers
- Pins and Bushes





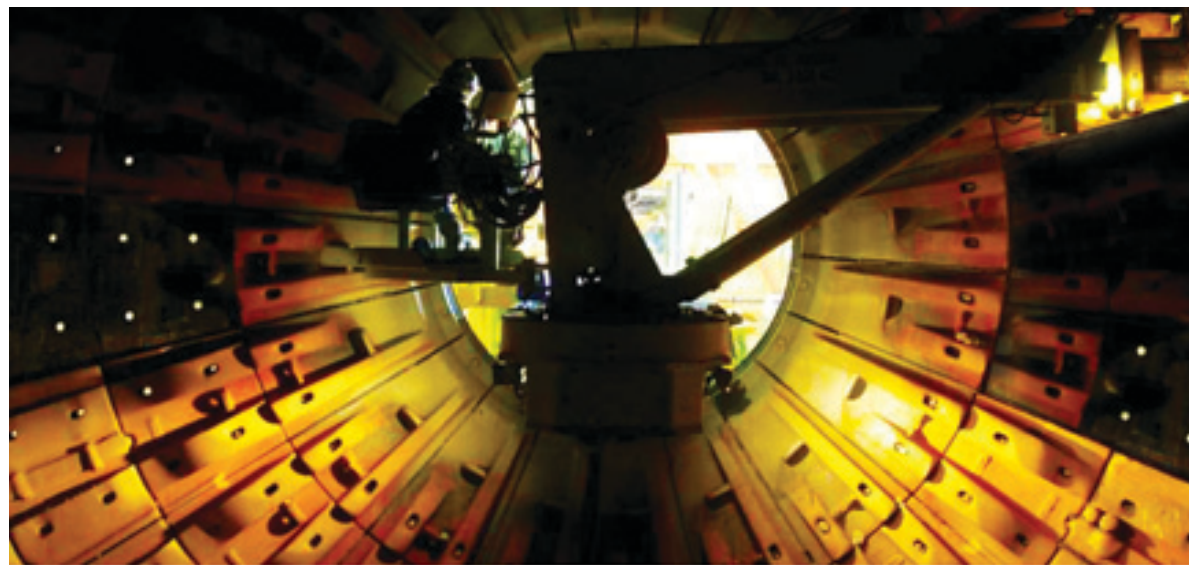
## Mineral Processing

Bradken is a market leader in the design, manufacture and supply of differentiated high quality mill, crusher and conveying products and services for the mining and quarrying industries.

Our business focuses on providing customers with innovative, cost effective complete wear liner solutions for mills and crushers, designed to increase performance and reduce operating costs in their grinding and crushing operations.

With an experienced network of regionally based sales and product development personnel Bradken are able to analyse customer site-specific product requirements to ensure that parts are precisely designed and manufactured for optimum operational performance.

By utilising specialised technology and engineering skills Bradken is able to offer a total package incorporating support services such as design analysis, technical inspections, shutdown supervision, wear monitoring services, responsive manufacturing as well as technical support and service.



Our products and capabilities include:

- Mill Liners and Fasteners for SAG/AG Mills, Ball Mills and Rod Mills (**Bullnose®**, **Vortex™**)
- Liners for Gyratory, Cone and Jaw Crushers
- Engineered spare parts for Mills and Crushers
- Grizzly Panels, Chute Liners and Apron Feeder Pans
- Vertical Grinding Mill Liners
- Wear monitoring and reporting
- Liner optimisation studies, including Discrete Element Modelling (DEM) and 3D scanning

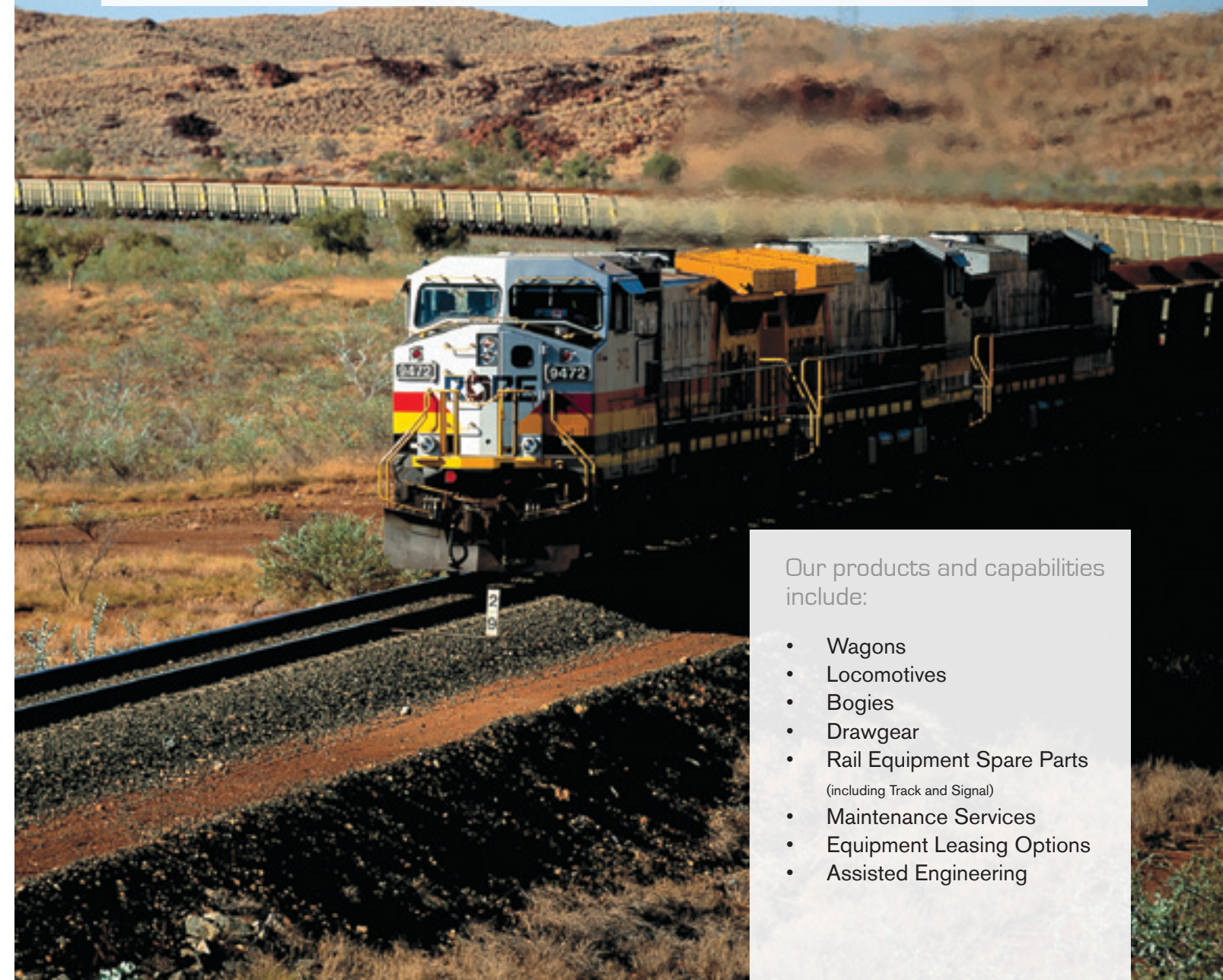
## Rail

As a provider of both products and services to the bulk minerals and freight transportation sectors, Bradken has the ability to offer customers in the Rail market a customised 'Total Support' solution encompassing design, manufacture, supply and maintenance services.

Bradken is renowned for the supply of high quality rollingstock equipment and complete wagons for the bulk heavy haul logistics market. Our ability to understand our customer's requirements and provide innovative, cutting edge designs ensures that Bradken is able to maintain a strong presence in this market.

Bradken has developed a range of additional capabilities designed to further support and assist customers in this market. In response to customer demand for more flexible ownership options, we have developed a leasing offer for the Rail market that provides fully maintained equipment options.

Complemented by a network of reliability centred maintenance service facilities capable of providing responsive engineering and field service when required, Bradken's offering also includes an extensive range of rail equipment spare parts for freight vehicles, passenger vehicles and locomotives in addition to track and signal equipment.



Our products and capabilities include:

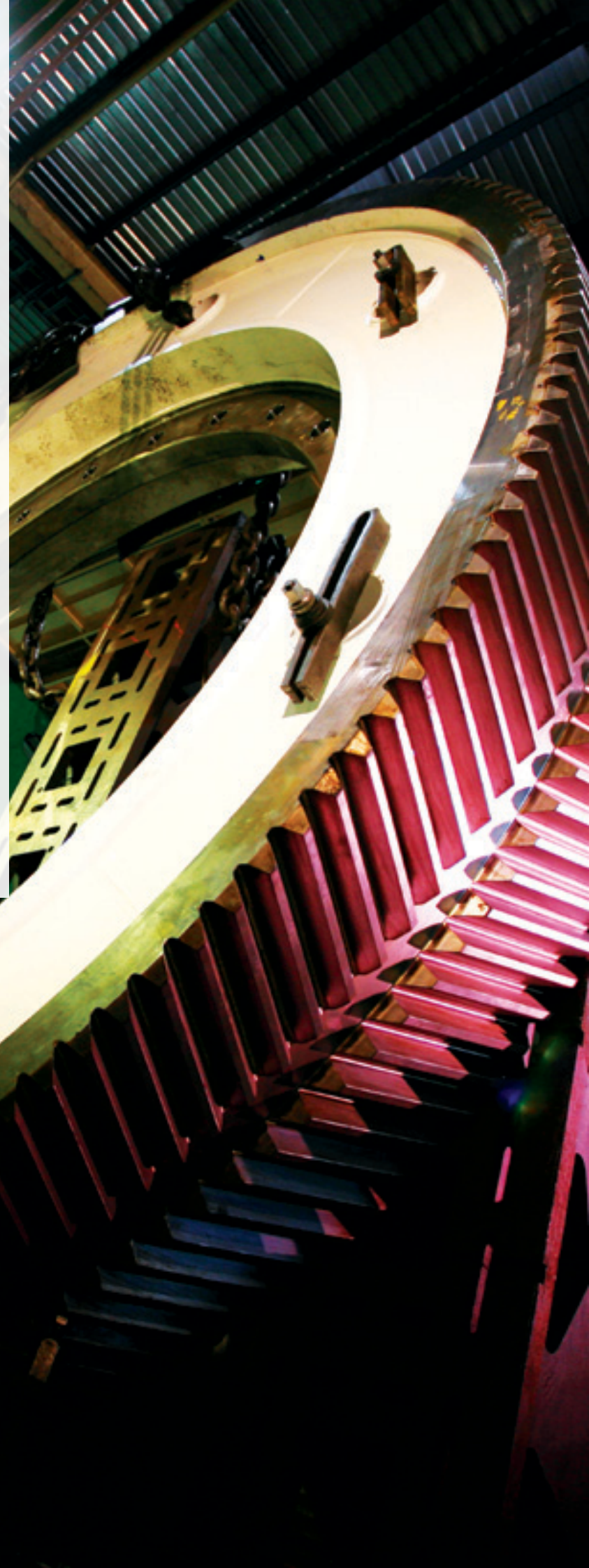
- Wagons
- Locomotives
- Bogies
- Drawgear
- Rail Equipment Spare Parts  
(including Track and Signal)
- Maintenance Services
- Equipment Leasing Options
- Assisted Engineering



## Engineered Products

Bradken's United States based Engineered Products Division provides our global customer base with specialised turnkey solutions. By utilising leading edge technology coupled with our extensive industry experience, highly skilled personnel and value-add offerings (including assisted engineering, solidification modelling and ProEngineering capabilities, CNC pattern making and tooling and enhanced X-ray capabilities), Bradken is able to manufacture the most challenging steel and stainless steel castings under the most intense specifications.

In North America, Bradken holds special qualifications for military and naval applications. We are certified by United States and Canadian governments and maintain a significant number of industry specific accreditations and customer specific certifications.



## Energy

Bradken has a rich history in the Energy market possessing the technical tools and infrastructure to manufacture the most challenging steel and stainless steel castings under the most intense specifications.



Servicing the Oil & Gas, Power Generation (including nuclear applications), Chemical Processing, Steam/Gas Turbine, Hydro and Military and Naval industries, Bradken's sophisticated manufacturing process, experience and focus on customer satisfaction combine to create solutions for today's most rigorous casting and machining requirements.

Our products include:

- Offshore oil and gas platform components
- Pumps
- Valves
- Gas compressors



## Industrial Products

Servicing the Rail and Transit, Mining and Construction, Military (Army), and general and specialised heavy industrial markets, Bradken is focused on the production of highly engineered, complex castings that transfer the value of our experience and expertise in the foundry industry into added value for our customers.

Bradken also has a long and successful history of working closely with Original Equipment Manufacturers (OEM's) to provide high quality, mission critical castings.



Our products include:

- Locomotive castings and componentry
- Transit undercarriages and sub-assemblies
- Truck assemblies/bogie assemblies
- Mining truck suspension components, differentials, gear cases and sub-assemblies
- Heavy construction equipment
- Specialised industrial castings



## Product Development and Technology

Bradken's skilled product development teams enable the design and delivery of products and services that set new benchmarks for excellence and offer significant advantages to customers.

Bradken's reputation for producing high quality, innovative products result from understanding customers operating conditions and providing superior performance.

By focusing on how our products work on your site, the specific applications in which they are used and the environments in which you use them, Bradken is able to enhance the design ultimately providing improved production and maintenance results.

Bradken designs are based on providing functional solutions and are characterised by their reliability, efficiency, cost effectiveness and whole of life value.



Utilising advanced technologies allows Bradken to link engineering with manufacturing ensuring a strong synergy between the product design process, application requirements and the interactions of customers' operations. This combination of design skills and application expertise guarantees that Bradken products provide superior performance in service and deliver tangible economic benefits to customers at all times.

Bradken's investment in new generation technology and focus on product development reinforces the Company's commitment to provide customers with specific, world competitive solutions to their individual needs.



Bradken's product development capabilities include:

- 3D CAD design
- 3D CAM patternmaking
- Computer Aided Engineering (CAE)
- Casting simulation software
- Discrete Element Modelling analysis
- Dynamic simulation analysis
- Fatigue analysis
- Finite Element Analysis (FEA)
- Instrumentation and data acquisition
- Competitive manufacturing
- Liner wear monitoring and reporting
- Maintenance, service and refurbishment
- Manufacturing process technology
- Material development
- Metallurgical services
- Robotic manufacturing
- Virtual prototyping



# Manufacturing

Bradken is one of the leading ferrous-casting companies in the world. With a vast global network of manufacturing facilities supported by sales and service centres located throughout the world, Bradken’s geographical diversity underpins its position as a world class, cost effective, high quality foundry and heavy engineering company.

Bradken’s manufacturing facilities employ the latest technologies in product development, design, tooling manufacture, casting processes, robotics, machining and assembly. Bradken can manufacture fully machined cast iron and steel products (both low and high alloy steels, stainless steels and wear resistant grades) ranging from a mass of less than 0.5kg (1lb) to over 25 tonnes (27.5ton).

Within Bradken there is a wealth of technical expertise specialising in a wide range of alloys and complex fabrication techniques in addition to operational and field experience.

This positions Bradken as one of the world’s most cost effective and quality foundry companies with an extensive product range and capacity capabilities offering customers security of supply now and in the future.



Bradken’s manufacturing capabilities include:

- Analysis and testing
- Fabrication and casting
- FEA and fatigue analysis
- Field Services
- Freight rollingstock design and manufacture
- Manufacture of high chrome iron products (up to 5m/16ft 5in diameter and 20,000kg /44,000lbs)
- Material selection and development
- Specialist melting, moulding, heat treatment, machining and inspection equipment
- Technical Service and support
- Wagon design validation and testing
- Dragline bucket scale testing



## Quality Policy

Bradken provides products and services that conform to requirements agreed with our customers.

We are committed to continuous improvement through:

CUSTOMER SATISFACTION

PROCEDURAL INTEGRATION

INTERNATIONAL COMPLIANCE

MANAGEMENT RESPONSIBILITY

EMPLOYEE RESPONSIBILITY



## Sales and Distribution

With a focus on the globalisation of our products, Bradken has an established sales and distribution network that enables us to service customers in the world's major mining and industrial markets.

When customers need parts or services they often cannot afford to wait for product to be shipped from the other side of the world. Bradken has 59 manufacturing, sales and service facilities strategically located in close proximity to key regional locations throughout Asia-Pacific, North and South America, Africa and Europe. In line with the Company's commitment to continuous improvement we continue to expand into new territories to further increase our capability to provide product, technical support and advice, and customer service worldwide.

Customers can be confident that they have access to regional expertise of the very highest calibre no matter where they are. Bradken employs experienced sales, service and technical teams making us the right choice for customers looking to get additional value from their suppliers.

Bradken's offering extends beyond the initial point of sale. In the interest of building positive long-term relationships with our customers we offer a range of aftermarket services and support that cover the full product lifecycle.

For further information and sales enquiries please visit [bradken.com](http://bradken.com) for your local representative.



Bradken's sales and distribution capabilities include:

- Continuous wear monitoring
- Maintenance services
- Refurbishment services (in-house or on-site)
- Aftermarket field services
- Reporting and documentation





## Safety

Bradken operates a 21 Step Safety Plan which forms an integral part of the Company's Management System and reinforces the safety processes outlined in international safety standards.

Bradken is committed through continuous improvement to:

- Preventing all injuries, illnesses and incidents
- Protecting the environment
- Providing a safe and healthy workplace

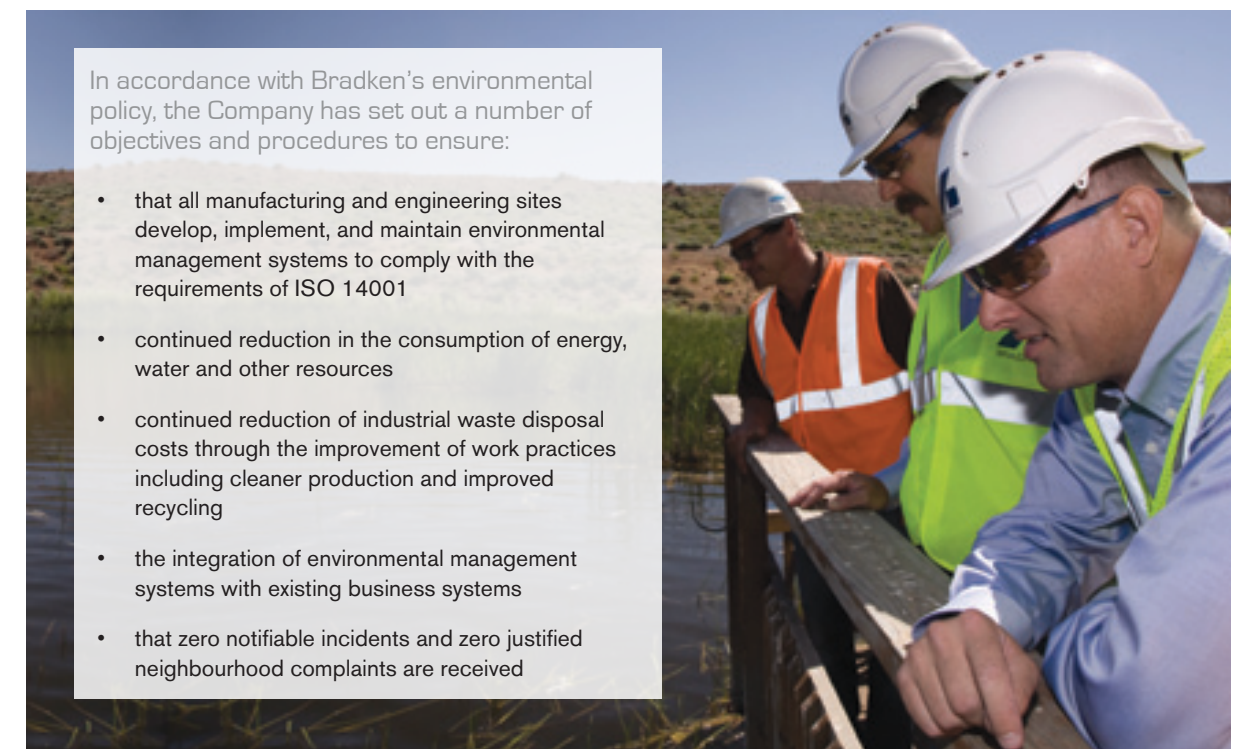


### Philosophy

- All injuries and incidents can be prevented.
- Involvement in injury, illness and incident prevention and reporting is the direct responsibility of all employees.
- All our employees shall be appropriately educated and trained in health, safety and the environment.
- Management shall ensure the Company's systems and operating procedures are compliant and proactively reduce injuries and incidents.
- Management recognises that health, safety and protection of the environment is its highest priority

## Environment

Bradken operates a group-wide Environmental Management System, which complies with the International Environmental Standard ISO 14001. We have implemented a long-term proactive approach to improve processes and practices that will minimise any adverse environmental impacts on the different environments in which we operate and to communicate our environmental performance to all stakeholders.



In accordance with Bradken's environmental policy, the Company has set out a number of objectives and procedures to ensure:

- that all manufacturing and engineering sites develop, implement, and maintain environmental management systems to comply with the requirements of ISO 14001
- continued reduction in the consumption of energy, water and other resources
- continued reduction of industrial waste disposal costs through the improvement of work practices including cleaner production and improved recycling
- the integration of environmental management systems with existing business systems
- that zero notifiable incidents and zero justified neighbourhood complaints are received

## Our People

At Bradken we acknowledge that our people are the key to our ongoing success. From the foundry floor to the board room, Bradken employees are

### “Proud to Belong”

and accept their obligation to uphold the reputation of the Company while conducting all business activities.

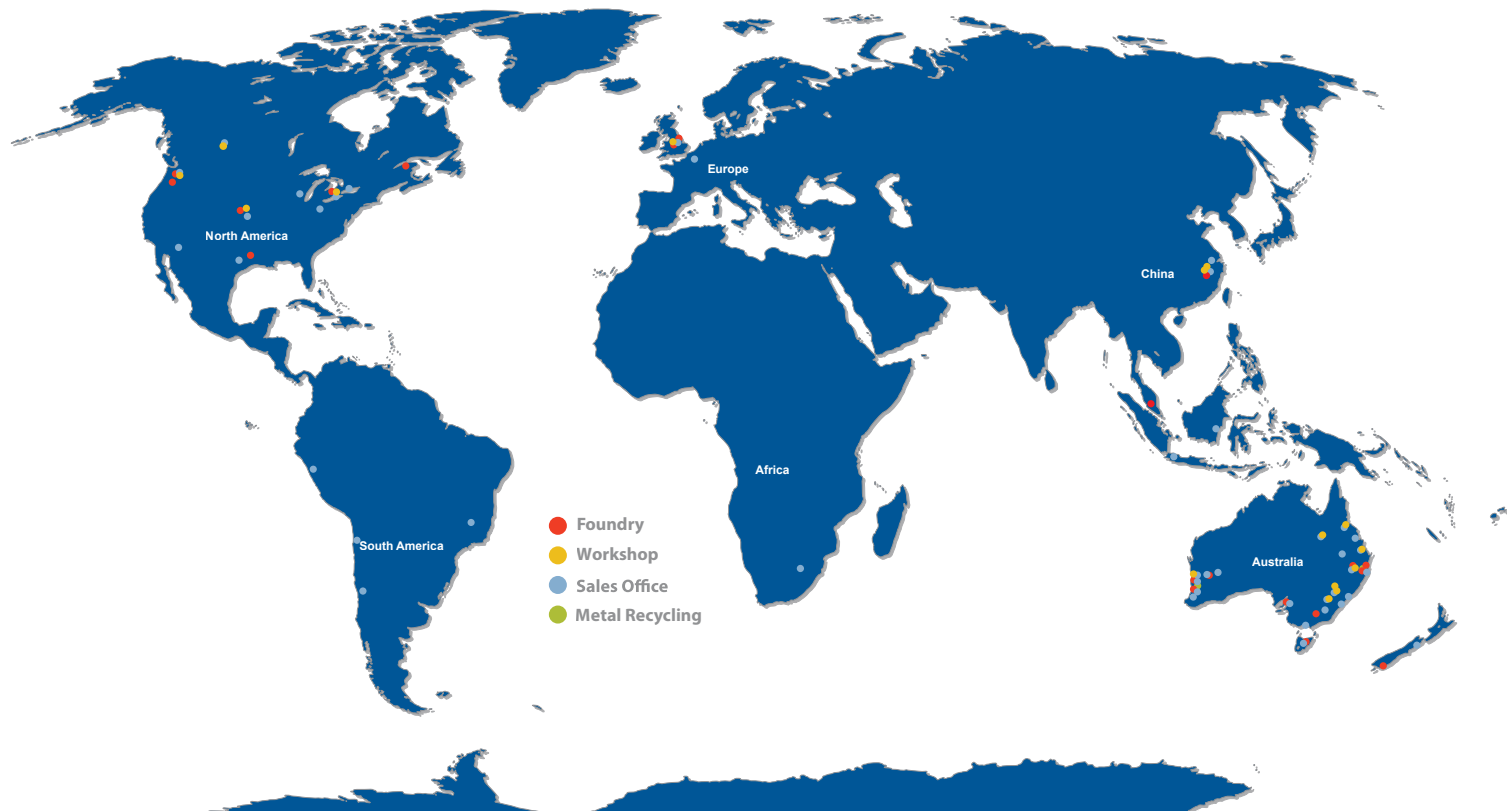
We pride ourselves on being professional and ethical in all areas of business and strive to ensure at all times that we maintain our integrity and our responsibility to the communities in which we operate.

We take responsibility for our own behaviour, for the actions we take and for the way in which we conduct both our personal and professional interactions.

Bradken employees are encouraged to strive for continuous improvement both in their work and personal lives and also maintain a healthy work-life balance.

As the Company continues to grow and evolve our Values remain firm, ensuring that Bradken maintains its standing as a good corporate citizen.





## Corporate Head Office

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 local representative.

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