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# Design Matters

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Austin Engineering is a leading designer and manufacturer of customised dump truck bodies, buckets and water tanks used in the mining industry. It is also a complete service provider, offering on and off-site repair and maintenance and heavy equipment lifting services to customers including miners, mining contractors and original equipment manufacturers. With a presence in some of the world's principal mining regions, Austin Engineering provides high quality, cost effective solutions, delivered on time and backed by through life product support.





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## Who We Are

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**AUSTIN ENGINEERING LIMITED (ASX: ANG), A PUBLICLY-LISTED ENGINEERING COMPANY, IS THE WORLD'S LARGEST NON-OEM MANUFACTURER OF MINING BODIES, BUCKETS AND WATER TANKS.**

Experts in solving engineering challenges, Austin Engineering has a history of improving machine efficiency and safety. Standard and customised designs are catered for from the specific requirements of OEMs to end-users.

Our manufacturing facilities are situated in key Australian and global resource sector locations. Each Austin Engineering business unit division, including the Quality Assured Brisbane and Perth operations, provide an array of manufacturing, repair and support services.

Our Australian workshop facilities include a number of 50 tonne overhead cranes, brake presses up to 1800 tonne capability, industrial blasting and coating facilities and the latest robotic manufacturing equipment.

Austin Engineering supports our products through the provision of on and off-site repair and maintenance services.

Safety is a key driver throughout the engineering and manufacturing process, with our designs often resulting in improved safety for operators.



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## Our Brands

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### **AUSTIN ENGINEERING**

The Austin Engineering brand encompasses design and manufacture of mining and earthmoving equipment, along with the provision of support services, from two Australian operations and Indonesia, USA, Chile, Peru and Columbia.



### **JEC**

Perth-based manufacturers of Mining and Earthmoving attachments and off-highway truck bodies. The JEC branded range of products designed are manufactured by Austin Engineering operations globally.



### **WESTECH**

Based in Wyoming USA, the Westech branded range of products are now designed and manufactured by the Austin Engineering Group globally.



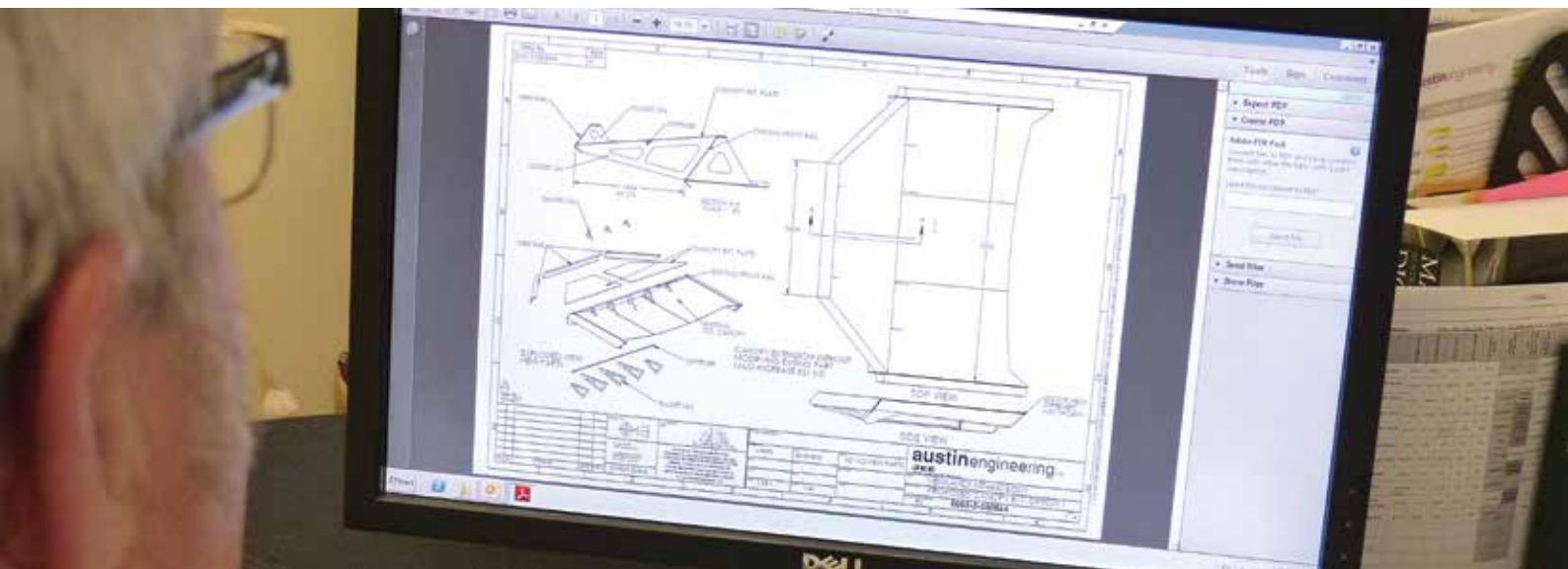
### **AUSTBORE**

Austbore's core capabilities include general machining services, the overhaul of track frames and other mining equipment and mobile line-boring services. Austbore works closely with the Austin Engineering Mackay operation in supply of their services.



### **SITE SERVICES**

Austin offers site services for all our products



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# Engineering Solutions

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**EXPERTS AT SOLVING ENGINEERING CHALLENGES, AUSTIN ENGINEERING'S TEAM OF EXPERIENCED ENGINEERS PROVIDE CUSTOM SOLUTIONS FOR SPECIFIC APPLICATIONS.**

We understand that each application is unique, and we engineer our products accordingly.

We work closely with you to discuss the specifics of your site and operational conditions including variables such as material density, abrasiveness of material, potential for hang up and loading practices.

Your requirements for capacity, lifespan, OEM specifications and any dimensional constraints are also factored into the design.

Safety is always front of mind when engineering a product along with productivity improvements and maintenance cost controls.

Using the most advanced software packages and techniques, including ANSYS and EDEM, we prove the theory of our design model to ensure results will be replicated in the field.

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# Engineering Innovations

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## **AUSTIN ENGINEERING UNDERSTANDS THE CHANGING DEMANDS OF THE MARKET AND WE CONTINUALLY REVIEW OUR DESIGNS AGAINST INDUSTRY REQUIREMENTS.**



Our engineering innovations include the Austin Flow Control Body®, the T3 Tyre Handler and the Stair Access Water Tank, as detailed below.

### **Austin Flow Control Body®**

The Austin Flow Control Body® for off-highway dump trucks (patent pending) has a revolutionary floor design that controls the flow of material out of the body during dumping.

This more even flow results in improved dust control, improved truck stability and safety, increased body life and reduced maintenance.

The Flow Control Body® is available for all truck brands and models in combo (coal and overburden), coal or overburden designs.

### **T3 Tyre Handler**

The T3 Tyre Handler is a compact tyre handler for use underground and in confined space, along with above ground use.

The T3's unique third arm gives added stability when performing tyre maintenance, making the process safer. Its lower height, compact size and increased rotation provides more efficient tyre maintenance.

Suitable for use on a wide range of mine trucks and wheel loaders, the T3 also facilitates attachment tooling for use with material handling equipment.

### **Stair Access Water Tank**

The Stair Access Water Tank module is fitted to OEM equipment for use in dust suppression or as fire fighting equipment, and comes equipped with spray equipment.

Unlike traditional water tank modules, the Stair Access Module has larger baffle openings with a direct line of travel to improve safety when performing confined space maintenance work.

Its innovative baffle design reduces surging and improves truck stability by up to 18%, increasing operator safety.





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# Products & Services

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## OVERVIEW

Austin Engineering is a leading designer and manufacturer of a range of mining and earthmoving equipment.

Known for our expertise with off-highway dump truck bodies and mining excavator buckets, we also produce a range of ancillary products such as tyre handlers and water tank modules.

Our manufacturing process adheres to strict quality standards and is conducted using the latest in fabrication techniques and technology.

Products are customised to our customers' specific applications to maximise machinery efficiency.

## Products

- Off-highway dump truck bodies
- Buckets
- Water tanks
- Service modules
- Tyre handlers
- Ancillary attachments

## Services

- Equipment repair and maintenance
- Specialised fabrication
- Blasting and painting



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# Products & Services

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## **BODIES**

Austin Engineering is the designer and manufacturer of bodies as well as a manufacturer of OEM off-highway dump truck bodies.

Our dump truck trays are custom engineered for all makes and models of trucks and applications.

We use a unique mix of steel plate during our monitored fabrication process, and design and install wear liner packages to suit client applications.

Our engineering experience enables us to deliver increased payloads, increased strength and wear ability, and increased reliability. Our ability to pass match maximises your fleet capabilities and lowers operating costs.

Experience counts - we have designed, manufactured and delivered over 9000 off-highway dump truck bodies.





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# Products & Services

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## MINING BUCKETS

Austin Engineering is an industry leader in the design and manufacture of mining buckets to suit excavators, face shovels and front end loaders

Our designs, ranging from 1.5m<sup>3</sup> to 52m<sup>3</sup>, are suitable for any application whether hard rock, iron ore, or coal.

From high production lightweight buckets through to heavy duty armored buckets, each bucket is customised to suit your specific application.

GET and wear package options are available to suit a diverse range of applications and OEM specifications.

We understand the importance of maximising machine efficiency so we engineer your bucket to capacity match bucket weight and material density and undertake pass matching - this results in faster cycle times.

Experience counts – we have designed, manufactured and delivered buckets for over 25 years.



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# Products & Services

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## DIPPER BUCKETS

Austin designs and manufactures rope shovel dippers with capacity up to 78yd<sup>3</sup>, optimised to suit mining application and improve digging efficiency.

They can be constructed to suit all available brands and styles of lip and GET.

The dippers feature a fully customisable internal liner kit which can be modified to suit specific applications, along with upgraded welded connections optimised using Finite Element Analysis to increase peak lifespan.

The heavy-duty fabricated door is also optimised using the FEA software to improve holding capacity.

An external liner of wear plate is attached and can be customised to suit client requirements.

Lip castings in the varying designs are fully gauged prior to installation to ensure correct fitment of Ground Engaging Tools (GET).

When in operation it is possible to change the angle of attack to optimise digging efficiency.

Site inspections are completed regularly to monitor performance and provide recommendations for life and operation improvement.



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# Products & Services

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## WATER TANKS | SERVICE MODULES

### Water Truck Tank Modules

Suitable for on or off-road vehicles, our water tank modules, for dust suppression or fire fighting trucks, are heavy duty in their construction.

Available in 14,000 to 180,000 litre capacity, all spray equipment brands are available including the quality Magnum product range.

Austin Engineering's unique Stair Access Water Tank module has large baffle openings with a direct line of travel to improve safety when performing confined space maintenance work. Its innovative baffle design reduces surging and improves truck stability by up to 18%, increasing operator safety.

### Service Truck Modules

Designed to meet customer specifications, Austin Engineering's lubrication, service and fuel truck modules are suitable for on or off-road vehicles.

We are able to design single or multi-compartment modules from 10,000 to 140,000 litre capacities.

Working with the OEM or directly with the end user, we tailor a solution to your specific application.



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# Products & Services

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## **TYRE HANDLERS | ATTACHMENTS**

### **Tyre Handling Equipment**

Austin Engineering designs and manufactures a comprehensive range of tyre handling equipment from 1,800kg to 15,000kg capacity.

Our tyre handlers offer a range of options including 30 degree body/120 degree pad rotation or 360/360 option, telescopic or parallelogram designs, side shift and quick hitch. A range of connections are available.

Our unique T3 Tyre Handler is a compact tyre handler for use underground and in confined space, along with above ground use. The T3's unique third arm gives added stability when performing tyre maintenance, making the process safer.

### **Mining and Material Handling Attachments**

Austin Engineering is able to design and manufacture a broad range of attachment products to suit any application.

We can produce a range of material handling equipment including fork frames, crane jibs, quick couplers, man cages, stemming buckets, cable reels and more.

Whether you are an OEM or end user we can work with you to engineer an attachment to suit your unique application.



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# Products & Services

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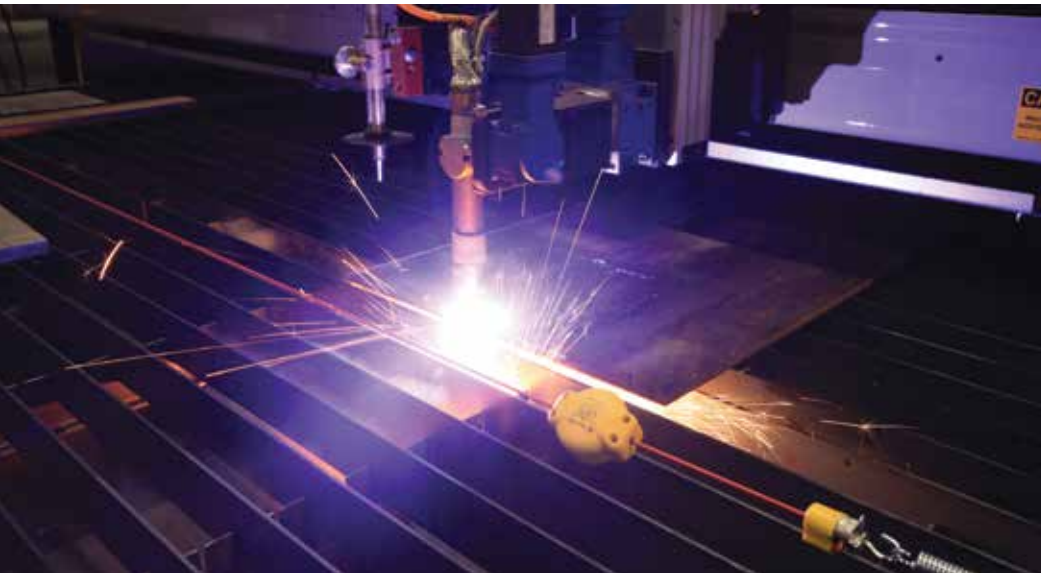
## **REPAIR AND MAINTENANCE**

Austin Engineering provides a comprehensive range of on and off-site repair and maintenance services for mining equipment.

From preventative maintenance through to emergency breakdown repairs or scheduled refurbishments our experienced technicians can assist you.

Our mining equipment maintenance services cover a range of equipment including mining truck body or tray repair and mining excavator bucket repair.

Fully equipped workshops with the latest in robotic welding systems and heavy duty overhead cranes are available for off-site maintenance and repair requirements, whilst specialised mine specced service vehicles are available for on-site work.



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# Products & Services

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## **BLASTING AND PAINTING | FABRICATION**

### **Blasting and Painting Services**

Our purpose built blasting and painting facilities serviced by overhead cranes enable us to offer a full complement of industrial abrasive blasting and painting services.

Whether you require protection from corrosion or wear, or require services for cosmetic reasons to apply brand colours, we have a range of coating types available to suit your needs.

### **Specialised Fabrication**

In addition to our product manufacturing fabrication process, Austin Engineering offers specialised fabrication and heavy fabrication services.

Our fabrication services range from general fabrication through to structural steel and heavy plate. Products we are able to fabricate include skids, mineral processing equipment and modular structures.

As specialists in our field, Austin Engineering has a team of experienced technical experts in welding including qualified International Welding Inspectors.



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# Through Life Support

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**YOU CAN HAVE CONFIDENCE IN PARTNERING WITH AUSTIN ENGINEERING AS WE OFFER A COMPREHENSIVE SUPPORT PROGRAM FOR OUR PRODUCTS AND SERVICES.**

With operations located in industry hubs we are easily accessible for support requirements, from structured asset management plans through to emergency break down repairs.

Experience the advantage of having your equipment maintained or refurbished by the manufacturer. With access to the original build

records we can ensure the appropriate welding procedures are adhered to.

Austin Engineering warrants all products for a period of 12 months or 6,000 hours, or whichever comes first subject to warranty conditions.

