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# Customised Bodies

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FOR OFF-HIGHWAY DUMP TRUCKS



- Application specific engineering
- Maximise fleet capabilities
- Lower operating costs
- High quality manufacturing



**WESTTECH**

**austin**engineering<sup>LTD</sup>



## Off-Highway Dump Truck Bodies

**AUSTIN ENGINEERING IS THE DESIGNER AND MANUFACTURER OF WESTECH AND JEC OFF-HIGHWAY DUMP TRUCK BODIES AS WELL AS OEM DESIGNED BODIES.**

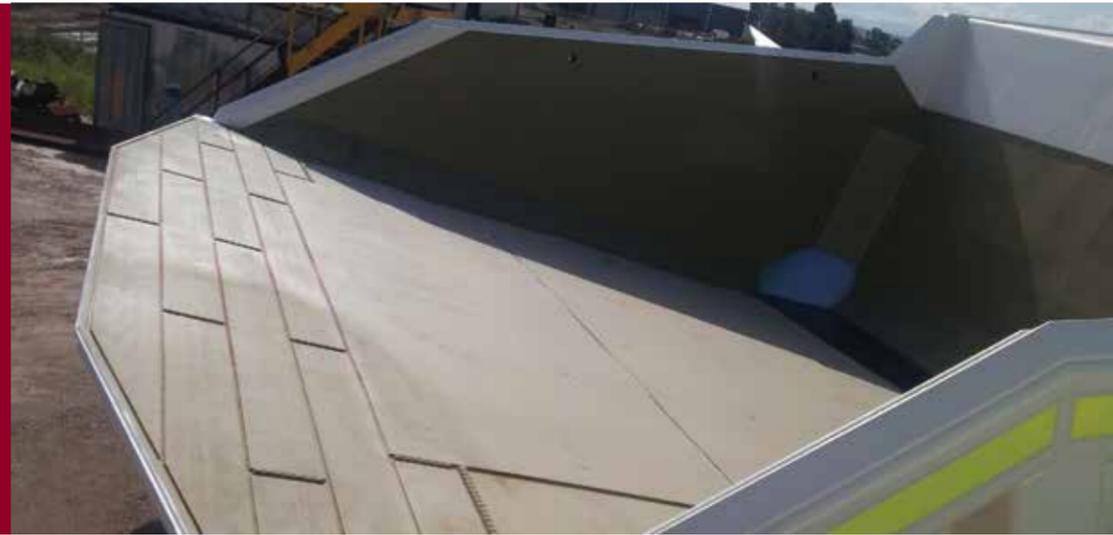
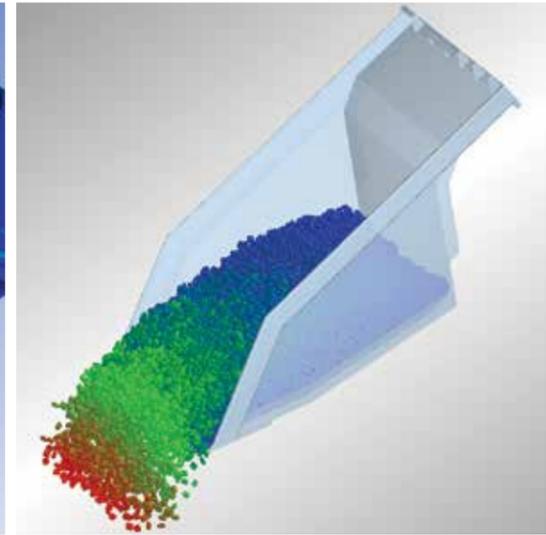
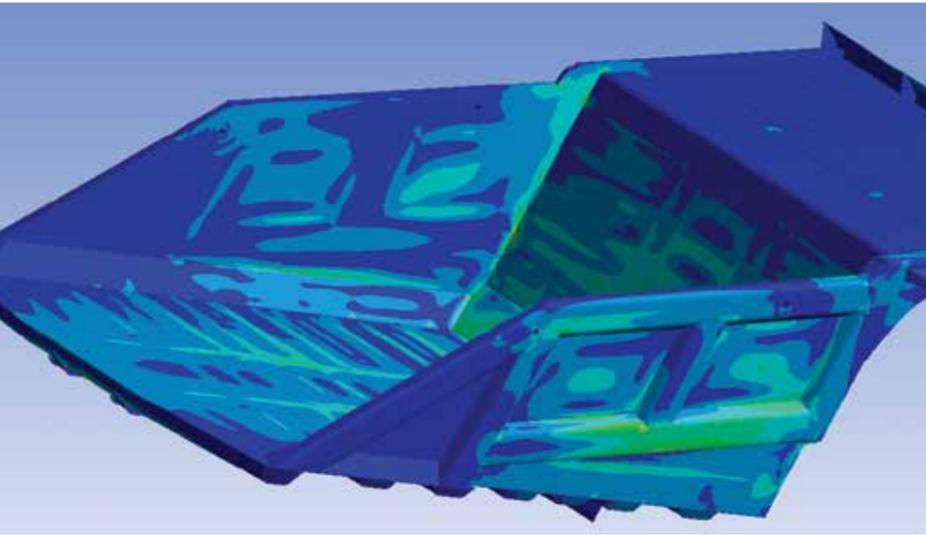
Our dump truck bodies are custom engineered for all makes and models of trucks and applications.

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 wearability and increased reliability. Austin Engineering's ability to pass match maximises your fleet capabilities and lowers operating costs.

Experience counts - we have designed, manufactured and delivered over 8000 off-highway dump truck bodies.



## Engineered Solutions

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Our Westech and JEC dump truck bodies are engineered to suit your unique application. 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, maintenance and any dimensional constraints are also factored into the design.

We are able to customise a body to increase payload whilst still adhering to OEM specifications. Our engineering team is also able to pass match to maximise fleet capabilities.

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

## Wear Packages

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Where required, Austin Engineering is able to engineer and manufacture a wear liner kit to suit your Westech or OEM body.

We take into consideration the site specific material density and abrasiveness when selecting the type and thickness of steel required for your wear liner.

In maximising wear plate life, we understand the importance of ensuring that the integrity

of the 'seal' between the body plates and the protective liner is maintained. This prevents fine materials from packing in under the liner plates which can cause them to 'pop' the welds and lift away from the floor.

Austin Engineering adheres to the highest welding standards to help minimise the risk of this occurring, but should rectification be required we are able to assist with preventative maintenance.



## Westech Bodies

Westech, based in Wyoming USA, is one of the world's largest non-OEM designer and manufacturer of off-highway dump truck bodies. The Westech branded range of products is designed and manufactured by the Austin Engineering Group globally.

With over 45 years of proven engineering experience, Westech bodies offer lower operating costs due to their longevity and ability to maximise fleet capabilities.

In support of our engineering, we will provide you a written statement of customised capacity for your body upon request.

- 1 Strength and wearability - designed for life of truck service
- 2 Optimised welding techniques to improve structural integrity
- 3 3 distinct body types available - rock, coal, coal/overburden combo
- 4 Bolsters, ribs, structural components are special grade steel
- 5 Customised wear packages available to suit specific applications
- 6 Suit latest OEM chassis specifications
- 7 Maximised payload potential to suit gross vehicle weight
- 8 Highly refined design based on proven traditional shape
- 9 Superior load stability and operator comfort



## Westech Flow Control Body®

The Westech Flow Control Body® (patent pending) has a revolutionary floor design that controls the flow of material out of the body during dumping, ensuring that the centre of gravity of the load remains forward of the rear axle for longer during the dumping cycle.

This unique design increases the stability of the truck by

eliminating lift of the front axles resulting in overall safer operation. The controlled flow of material also results in improved dust control and improved body life.

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



## JEC Bodies

The JEC body is a lighter weight modular design with the aim of improving payload, reducing material hang-up and overall operating costs.

The key features of the design are the skeletal frame which complements the innovative replaceable floor. The replaceable floor eliminates the need for heavy, maintenance intensive wear liner plates. The floor can be easily removed and replaced in less time than replacing a full liner package.

The long term benefit to the end user is an increase in payload due to the saving in overall body weight and improved carrying capacity.

- 1 Replaceable floor wear area
- 2 Replaceable canopy plate
- 3 Skeleton frame lasts for life of truck
- 4 Lighter weight
- 5 Improved volumetric capacity with increased payload potential
- 6 Curved internal transitions to reduce hang-up
- 7 No wear liner plates required
- 8 Floor and side wall thickness customised to suit loading tool
- 9 Individual models comply with OEM specifications



## JEC Underground Tub

The JEC underground mining tub has been optimised with anti-carry back features and increased payload. Tub sizing is customised to suit site specific conditions, with the base tub design configured to be easily adaptable to a range of OEM trucks.

- 1 **Impact plates**
  - Solid impact bar to all upper surfaces with progressively curved leading edge to resist impact and wear
  - Reinforcing to high impact zones integral to body structure
- 2 **Innovative tub designs**
  - Shallow angular transitions to all internal joints assists in minimising initiation of material hang-up
  - Redesigned wheel arches and increased dump angle to improve material flow
  - Large radius transitions and lowered profiles to reduce material hang up
- 3 **Reinforced areas**
  - Single pressed piece inner side bolsters with high strength radial transitions minimise washout
  - Reinforced rear corner assembly adds structural protection to high impact areas
  - Heavy duty reinforced rear bolster adds structural support from damage while dumping in the field
- 4 **Chassis connection**
  - Designed to fit the OEM truck chassis utilising the OEM hoist and pivot pins
  - Reinforced rear beam and pivot structure
  - Redesigned tub guide box and tub guides to increase strength in these critical areas
  - Designed for easy installation to the OEM chassis using 4 lift points positioned at the top edge of the tub sides



## OEM Bodies

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Austin Engineering provides manufacturing services for OEM designed dump truck bodies, from total fabrication to assembly of flat packs.

Our experienced technicians apply the latest welding techniques, including robotic welding, to the body during the fabrication process.

This, along with adherence to Austin Engineering's quality assurance program, ensures the OEM body is manufactured to the highest quality standards.

Our experience in working with OEMs means we can be relied on to maintain confidentiality and protect the OEM's IP.

Austin Engineering is able to partner with the OEM to design improvements to the body if required, and provide engineering support services.

## 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 dump truck bodies.

All JEC and Westech products carry an engineering and workmanship warranty for

a period of 12 months or 6,000 hours, or whichever comes first subject to warranty conditions.

We can undertake on-site inspection and produce condition monitoring reports to ensure product life is maximised.

## Preventative Maintenance and Repairs

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Austin Engineering provides a range of on and off-site repair and maintenance services for dump truck bodies. Our services are available both for products manufactured by us and other manufacturers including OEMs.

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 spec'd service vehicles are available for on-site work.



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