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### **RAIL MAINTENANCE SOLUTIONS**



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# WE OFFER A FULL CONSULTING, 3D SCANNING AND ENGINEERING SERVICE

Projects and the associated challenges often require custom solutions, we take pride in our CDEC system. Consultation, Design, Engineering and Construction is our holistic approach to solution development making maintenance on-site safe, efficient and easy.

# **CDEC PROCESS**

**CONSULTATION** We come to you and visit your site to get a hands-on feel for your project. The aim of our consultation is to listen to and understand your requirements. If the project requires it, our 3D scanning capabilities will streamline measurement and data capture. This approach allows us to develop and discuss with you on-site, possible solutions to your problem, and the benefits we can offer.

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**DESIGN** After the consultation we go back to our design team to begin the development of your custom solution. Our team produce designs in CAD Design complete with all drafting documentation ensuring an advanced manufacturing process. Our process allows and encourages you to be involved in the design stage and collaborate with our highly skilled team.

**ENGINEERING** Once the design is approved, we begin the development and engineering process. This ensures that the right material is used for your project to guarantee structural and functional integrity. We provide full certification that includes WLL, load ratings, integrity reports as well as certificate plates and identifications. We design and engineer all our solutions to ensure full compliance to ensure full compliance with Australian standards.



**CONSTRUCTION** Finally, once the project is ready and certified for construction, we manufacture your solution. We test, machine, fabricate and surface treat as well as trial fit your custom project. We only manufacture high quality products that provide long lasting, safe and efficient solutions.



# MAJOR RAIL PROJECTS



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### **MAJOR RAIL PROJECTS**

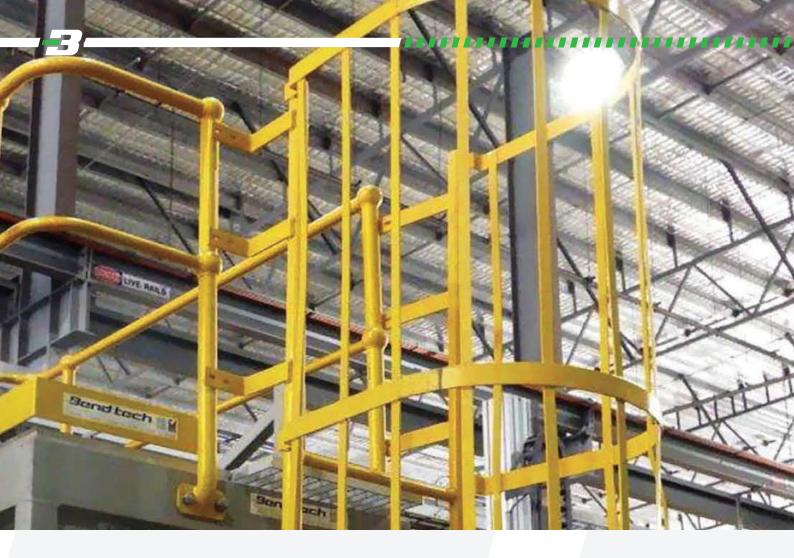
Our team of consultants, draftsman, engineers and fabricators are experienced in developing solutions for an extensive range of problems and applications. Our exposure to such a broad range of industries, legislation and low tolerance specifications has allowed us to develop unrivalled expertise and problem-solving abilities.

### **BRAKE LINES**

We have supplied end-to-end brake line solutions for railway ore cars for over 15 years, we have supplied over 5000 complete kits. These have encompassed the full drawing, design and placement of pipelines. We procured and supplied all of the raw materials including; pipework, high-pressure fittings and valves.

We developed complete easy-weld jigs built to incorporate pipework and all finished manifolds were comprehensively inspected for leaks. The complete brake lines were bent to specification on our CNC benders and constructed for final cleaning and capping, ready for delivery.

# **EXPERTISE, UNDERSTANDING AND WORKMANSHIP DRIVES OUR SERVICE**



### **ORE CAR REPAIR AND UPGRADE**

This ongoing project required and upgrade of 1500 steel wagons, this involved many different components over a 3-year period. These included plate works, structural members, wear pads, pipework, shims and bosses, machined parts and connectors, reverse engineering and replacement of OEM parts.

### **ACCESS PLATFORMS**

We have constructed many certified and compliant access platforms. In particular for rail and locomotive applications, we have designed and engineered platforms for the safe access of roof areas, air conditioning units and rail tooling.



**COMPLETE LOCOMOTIVE** WORKSHOP SOLUTIONS



Our design, engineering and manufacture of handrailing for locomotives, wagons and rail workshops have increased safety as years and legislation has passed. All of our handrails are designed for full certification and compliance with Australian Standards.

### **OTHER PROJECTS**

Along with our design and engineering departments, our industry leading fabrication, plate cutting, roll forming, press forming as well as bending and rolling services align us with an end to end solution for many projects.

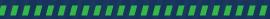
### **PROJECTS INCLUDE:**

- Doors
- Pipework
- Ancillary components
- Brackets
- Transport frames
- Lighting brackets
- Gates



# PLATFORMS

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RAIL MAINTENANCE SOLUTIONS





### TRACK MACHINE MOBILE ACCESS PLATFORM

Part No. 5501793

Designed and engineered for safe, efficient and easy maintenance.

### CONSTRUCTION

- Heavy-duty aluminium
- Extended height handrails
- Sliding handrails on the side extend by 2.2m
- Complete safety when working in hard to reach areas
- Non-slip stairway and work area
- Self-closing door
- Replaces the need for scaffolding or EWP's
- Wheels for ease of manoeuvrability on site

- Tow-point which attaches to a tug, for easy movement
- Comprehensive sensors provided on all gates and height sensors on the adjustment system.
- Adjustable in height
- Hinged ladder system, which alters angle as the platform adjusts up and down
- This item can be customised to meet your specific needs and is engineered, certified and built to Australian Standards.

# PLATFORMS

### TRAIN POSITIONER MOTOR ACCESS PLATFORM SET

Part No. 5501051

### CONSTRUCTION

- Heavy-duty aluminium
- Complete safety when working in hard to reach areas
- Non-slip stairway and work area
- Self closing gate
- Replaces the need for scaffolding
- Wheels for ease of manoeuvrability on site
- This item can be customised to meet your specific needs and is engineered, certified and built to Australian Standards.

### TRAIN POSITIONER CONTINUARY ROLLER ACCESS PLATFORM

Part No. 5414052

### CONSTRUCTION

- Heavy-duty aluminium
- · Wheels for ease of manoeuvrability on site
- Aluminium scaffold planking
- Non-slip stairway and work area
- Extended height handrails
- Complete safety when working in hard to reach areas
- This item can be customised to meet your specific needs and is engineered, certified and built to Australian Standards.

### RAILCAR CLAMP WEAR PAD ACCESS PLATFORM

Part No. 5501033

- Heavy-duty aluminium
- Wheels for ease of manoeuvrability on site
- Non-slip stairway and work area
- Self-closing gate
- Safety handrails
- This item can be customised to meet your specific needs and is engineered, certified and built to Australian Standards.







# PLATFORMS

### RAILCAR ACCESS PLATFORM

Part No. 5401530

### CONSTRUCTION

- Heavy-duty aluminium
- Removable handrails
- Adjustable height jacks to compensate for ground undulation
- Non-slip stairways and grating
- Modular build can be broken down and easily transported around site or rail yard
- This item can be customised to meet your specific needs and is engineered, certified and built to Australian Standards.

### TRAIN LOAD-OUT PLATFORM

Part No. 5502570

### CONSTRUCTION

- Heavy-duty aluminium
- Non-slip stairway and work area
- Self closing door
- Fitted with counterweights
- Fitted with heavy-duty castors
- Fitted with jacking stands

### CAR DUMPER ACCESS PLATFORM

Part No. 5502481

### CONSTRUCTION

- Heavy-duty aluminium
- Non-slip stairway and work area
- Fitted with heavy-duty lockable castors
- Fitted with work bench
- Also suitable for the KOMASTU 8730E



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# PLATFORMS

### **TRAIN ACCESS PLATFORM**

Part No. 5501361

### CONSTRUCTION

- Heavy-duty aluminium
- Non-slip stairway and work area
- Fitted with non-slip step nosings
- Self-closing gates
- Fitted with heavy duty castors
- Fitted with forklift slots
- Certified and compliant with Australian Standards

### MODULAR LOCOMOTIVE ACCESS PLATFORM

Part No. 5501336

### CONSTRUCTION

- Heavy-duty aluminium
- Modular design
- Removable handrails
- Non-slip stairway and landings
- Self-closing gate



### **RAIL CAR ACCESS PLATFORM**

Part No. 5501877

- Heavy-duty steel
- Welds to existing plant structure
- Ladder access
- Full assembly bolts together for ease of transport
- Removable Handrails
- Grating completely hot dip galvanised
- Handrails finished in Y14 safety yellow



# PLATFORMS

### ALUMINIUM RAIL PLATFORMS

Part No. 5501520

### CONSTRUCTION

- Heavy-duty aluminium
- Non-slip stairway and work area
- Self-closing gate at the top of the stairs
- Fitted with forklift slots

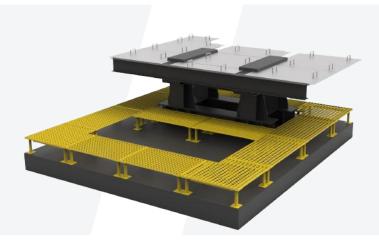


### TENDER CAR DUMPER WHEEL GRIPPER REMOVAL PLATFORM

Part No. 5501143

### CONSTRUCTION

- Heavy-duty steel
- Hot dip galvanised
- Bolt-on handrails
- Fitted with lifting lugs
- Fitted with non-slip step nosings



### **ALUMINIUM RAIL PLATFORMS**

Part No. 5501377

### CONSTRUCTION

- Heavy-duty steel
- Bolt-on handrails
- Bolt-in step treads
- Fitted with lifting lugs
- Fitted with non-slip step nosings



### *IIII* **RAIL MAINTENANCE SOLUTIONS**

# PLATFORMS

### UNDER LOCOMOTIVE WORK STEPS

Part No. 5503775 - 4 Step Part No. 55037751 - 2 Step

### CONSTRUCTION

- Heavy-duty aluminium
- Non-slip step nosing's
- Heavy-duty non-slip grating
- Heavy-duty Blickle castors
- Certified and compliant with Australian Standards



### LOCOMOTIVE HANDRAIL EXTENSION

Part No. 5503780

- Heavy-duty steel
- Certified and compliant with Australian Standard
- Bolts on to existing handrails
- Painted to your requirements
- Can be customised to suit your handrail requirements





# MAINTENANCE



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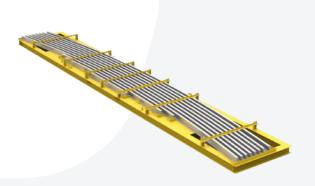


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### MAINTENANCE

### RAIL SECTION TRANSPORT FRAME

Part No. 5502094



### RAIL CAR WHEEL GRIPPER Part No. 5505694



### CONSTRUCTION

- Heavy-duty steel
- Fitted with lifting lugs
- Certified and compliant with Australian Standards

### WHEEL BLANK SUPPORT TABLE

Part No. 5501898



### CONSTRUCTION

- Heavy-duty steel
- Hinged Flip-up section accommodating gas struts for reduced manual handling
- Finished in Y14 Safety Yellow
- Certified and compliant with Australian Standards

### CONSTRUCTION

- Heavy-duty steel
- Attaches to a crane
- Designed to minimise manual handling
- Finished in Y14 safety yellow

### WHEEL BLANK LIFTER Part No. 5501899





- Heavy-duty steel
- Designed for various size wheel blanks
- Attach to a crane for easy transport
- Heavy-duty steel construction
- Certified and compliant with Australian Standards



### LOCOMOTIVE CAMERA SHIELD Part No. 5501381



### CONSTRUCTION

- Heavy-duty steel
- Blasted, primed and painted to your requirements
- Designed to guard and protect the camera on locomotives

### WHEEL BOBBIN

Part No. 55013231 V1 Part No. 55013232 V2



**LOCOMOTIVE BREATHER** 

**VENT LOUVRES** 

Part No. 5501462

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• Heavy-duty steel



- Heavy-duty steel
- Transport stand for rail wheels
- Fitted with forklift slots
- Finished in Y14 safety yellow
- Certified and compliant with Australian Standards

# MAINTENANCE

### **EOTD CARRIER**

Part No. 5502140

### CONSTRUCTION

- Heavy-duty steel
- EOTD removal tool
- Finished in Y14 safety yellow
- Certified and compliant with Australian Standards

### KNUCKLE CARRIER TROLLEY

Part No. 5501607

### CONSTRUCTION

- Heavy-duty steel
- WLL: 50kg
- Certified and compliant with Australian Standards
- High-performance coated in Y14 yellow

### **ADJUSTABLE STAND**

Part No. 5501626

- Heavy-duty steel
- WLL: 270 Tonne
- Certified and compliant with Australian Standards
- Adjustable to 5 heights
- Blasted, primed and coated to site requirements
- Can be customised to your requirements



# MAINTENANCE



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### **TRAIN DERAIL TOOLING KIT**

Part No. 5502157

A comprehensive rail maintenance enablement kit. This unit can be customised to your requirements . Fully contained in a standard 10ft container

### CONSTRUCTION

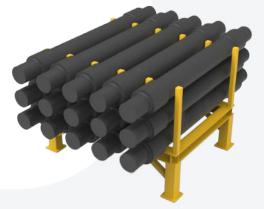
- Heavy-duty aluminium
- Comprehensive kit to be used in the case of a train derail
- Includes slide-out sections for ease of use
- Fully contained inside a compact, standard 10ft container
- Can be customised to suit your requirements
- Fitted with forklift slots
- Certified and compliant with Australian Standards

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### MAINTENANCE

### SLOT STAND FOR RAIL AXLE SETS

Part No. 5503143



### RAIL AXLE STANDS Part No. 5503740



### CONSTRUCTION

- Heavy-duty steel
- WLL: 7T
- Holds 15 axles safely
- Finished in Y14 safety yellow
- Certified and compliant with Australian Standards

### WHEEL SET SUPPORT STAND Part No. 5503144





### CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- V-shaped top with rubber lining
- Fitted with handles for mobility
- Certified and compliant with Australian Standards

- Heavy-duty steel
- WLL: 2.8T
- Holds 4 axles safely per stand
- Hot dip galvanised
- Fitted with forklift slots
- Certified and compliant with Australian Standards



### KNUCKLE CARRIER Part No. 5502164

Part NO. 5502104

SWITCH CLAMP ISOLATION DEVICE Part No. 5503143



### CONSTRUCTION

- Light-weight aluminium
- WLL: 45kg
- Eliminates manual handling

### CONSTRUCTION

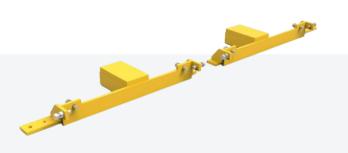
- Heavy-duty steel
- Tool used to isolate switch clamps
- Can be customised to your requirements
- Certified and compliant with Australian Standards

### **ALTERNATOR ALIGNMENT JIG**

Part No. 5501642

### **BEARING LIFTING JIG**

Part No. 5502141



### CONSTRUCTION

- Heavy-duty steel
- Alternator alignment tool
- Finished in Y14 safety yellow
- Certified and compliant with Australian Standards



#### CONSTRUCTION

- Heavy-duty steel
- Lined with rubber for increased grip
- Certified and compliant with Australian Standards

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