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# **DIRECTECH**

*Industrial Mechatronic Solutions*



## Directech Group Overview Presentation

Rail, Automotive, Food & Beverage & Mining





## Group History

Directech group was founded in 1993 by Peter Erasmus (current CEO). The company started as a control and automation solution provider. Through the years of operation going towards 1998, it evolved towards being a mechatronics solutions provider, due to South African customer demand for companies capable of doing both mechanical and control automation solutions.

Directech (Pty) Ltd company evolved to become the mechatronics innovation and development company under the Directech Group.

In 1998 a sister company Anytech was founded with the need to separate control automation from Directech's mechatronics turnkey solutions. Anytech is a distributor of control automation equipment & scada, such as PLCs, HMI, Software, etc.

In 2008 South Africa experienced power shortages and an opportunity arose to supply custom made power diesel power generators. This gave birth to another subsidiary company named Hawkpowers with focus on power generator solutions.

*In the last four years Directech business started diversifying more in other mechatronics sectors and expanding into other South African provinces.*



**Anytech (PTY) Ltd** is an Industrial Automation equipment supplier that has been providing tailor-made solutions to a wide variety of customers in various industries throughout Southern Africa since 1999. Through our wide range of world leading automation technology and extremely competent technical support network, ANYTECH is ideally placed to provide its customers with complete peace of mind when it comes to any automation application.



**Directech (Pty) Ltd** is a mechatronics innovation and development company that specialises in bespoke industrial turnkey solutions, comprising of robotic solutions (Kawasaki, Nachi), machine building solutions, automated torque tool systems (AMT), automated guided vehicle solutions, telemetry (smart city/factory) systems, packaging solutions, aluminium kits building solutions (Item), and spray painting solutions (Anest Iwata)



**HAWKPOWER** generator sets have been designed, engineered and precision assembled to provide reliable and low-cost power, with specific configurations to suit your requirements.

5kVA - 5000kVA  
Custom Built Generators



**LISTER PETTER AFRICA** specializes in Industrial Engines. We ensure that spare parts and supply of finished product, tailored for the end user is readily available.

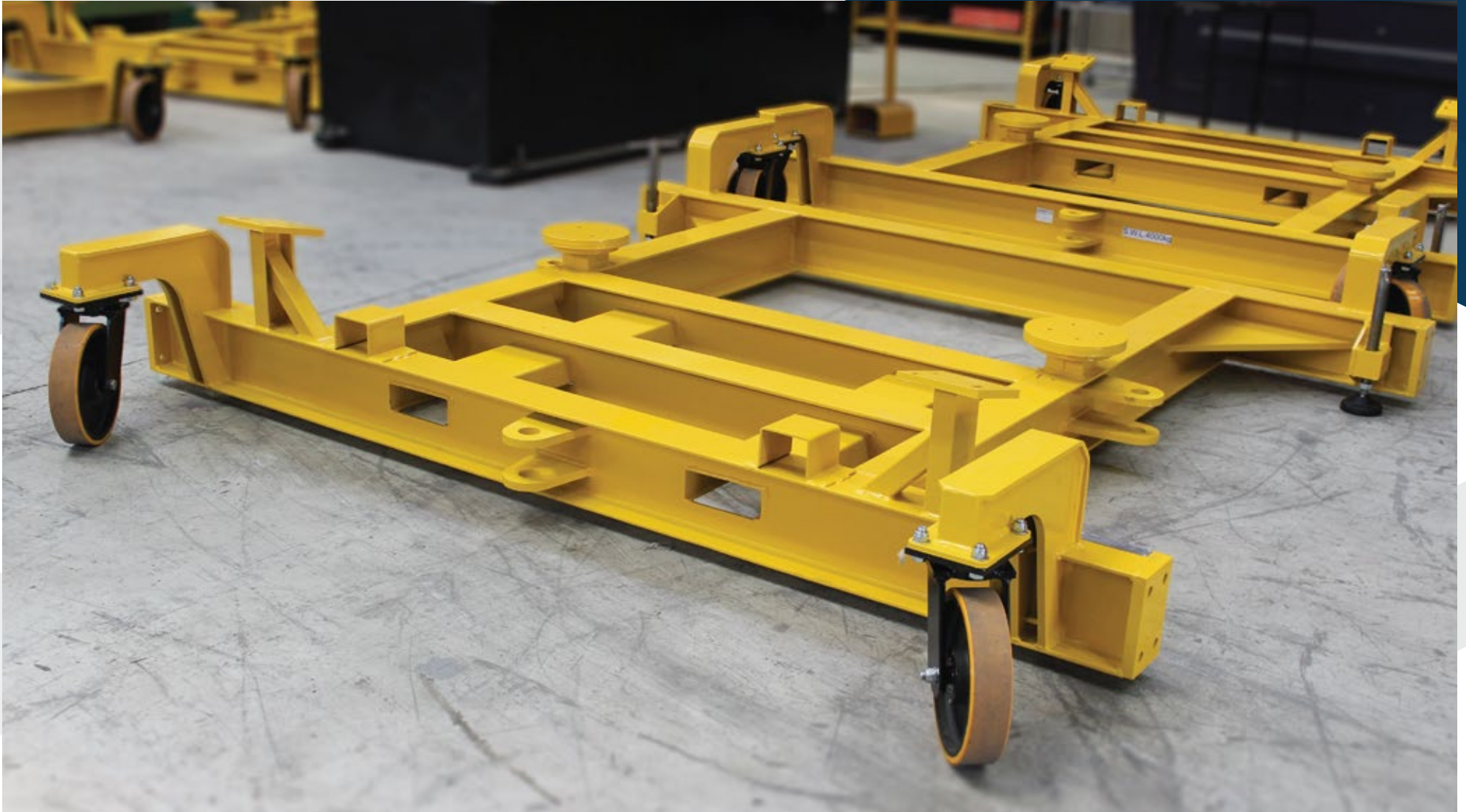


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Train  
Cabin Jig



## Train Cabin Jig

This tool is used at to move the train cabin from the assembly dielectric testing area to the body head joining section. At the joining section, the jig is used to lift up the cabin, just above head level for the cabin to be mounted onto the train body.



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Train Pony  
Bogies





## Train Pony Bogies

Directech manufactured a total of 42 pony bogies. The bogies are used to move train cars from one assembly area to another before the coach cars are installed with bogies. At full capacity, the factory is expected to produce about 9 train cars in 7 days.

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Under Train Equipment  
- Main Lifting Table





## Main Lifting Table

Directech has successfully manufactured x2 of the four tons lifting tables. These tables are utilized to install various sized equipment under the train cars. This table is pendant driven with wheels that moves on flat surfaces and another set of wheels for rail movements.



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Train Cabin  
Lifting Jig





## Train Cabin Lifting Jig

This jig was manufactured with a capacity to lift up to 8 tons, it is used in conjunction with the cabin moving jigs to lift the train cabin from the ground up to the level of the train body, to merge the two.

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Train Ceiling & Underframe  
Installation Jig





## Train ceiling installation jig

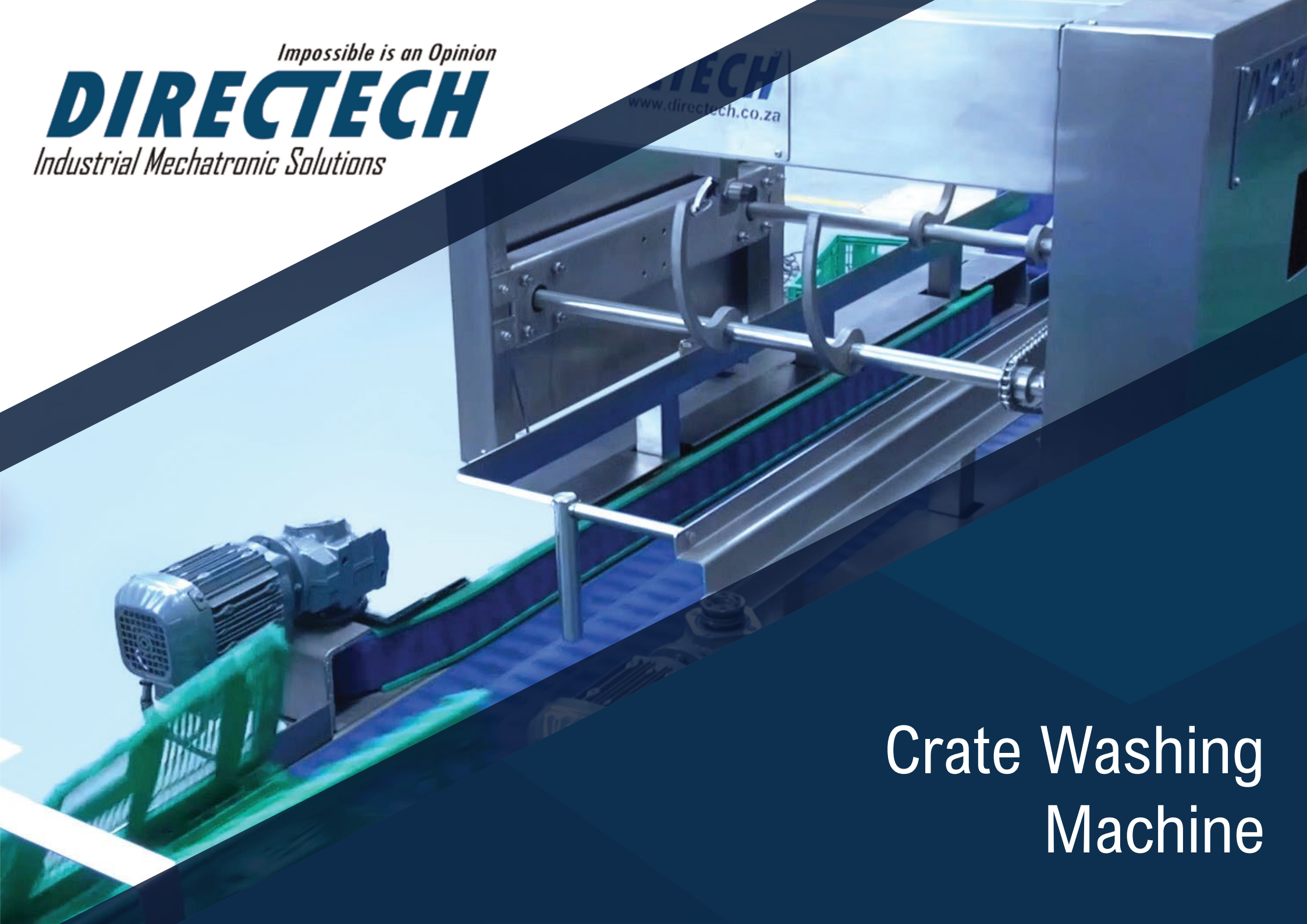
This equipment is used to install the train ceiling into the newly built train car. Directech's responsibility was to refurbish and support this equipment. Directech is currently developing a South African version of these ceiling jigs.

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[www.directech.co.za](http://www.directech.co.za)

Crate Washing  
Machine







## Crate washing, sanitizing, drying and stacking machine

This machine was designed and manufactured by Directech all within 3 month. The purpose of this machine is to clean, sanitize, dry and stack about 25000 crates of different sizes, all within an 8 hour shift.

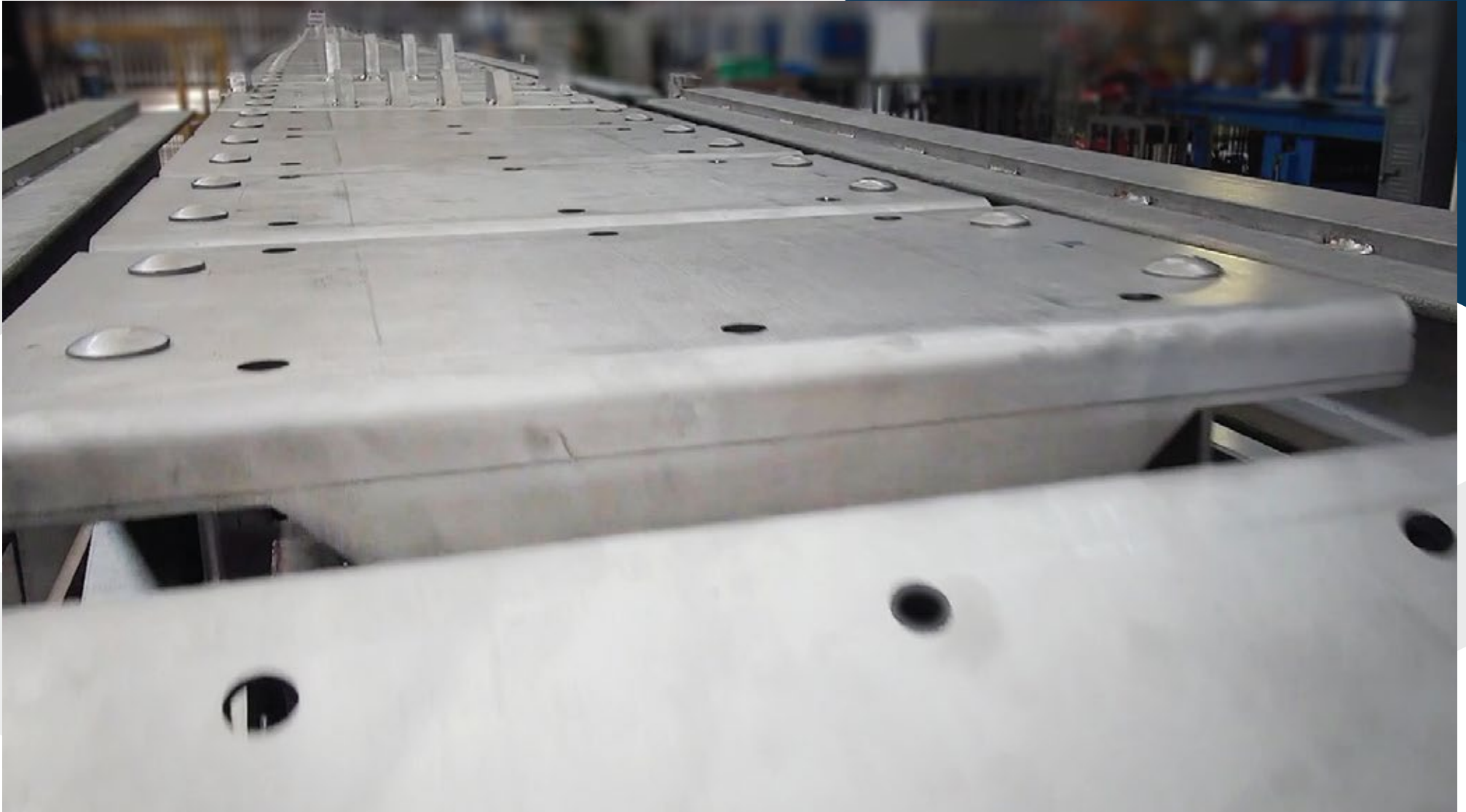
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72m Vehicle Water  
Tightness Test Conveyor





## **72m Vehicle Water Tightness Test Conveyor**

Directech designed and built this conveyor for the purpose of moving customer vehicles in their water tightness testing assembly plant.

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## Truck Axle & Chassis Assembly





**Truck Axle & Chassis Assembly**

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Train Parts  
Painting Jig





## Train Parts Painting Jig

These painting jigs were manufactured by Directech for a customer in the Rail industry. These jigs are used for shot blasting and painting of various large size train parts such as the bogies. They are built to travel on rail and with a rotating gearbox to rotate the part during the painting process.

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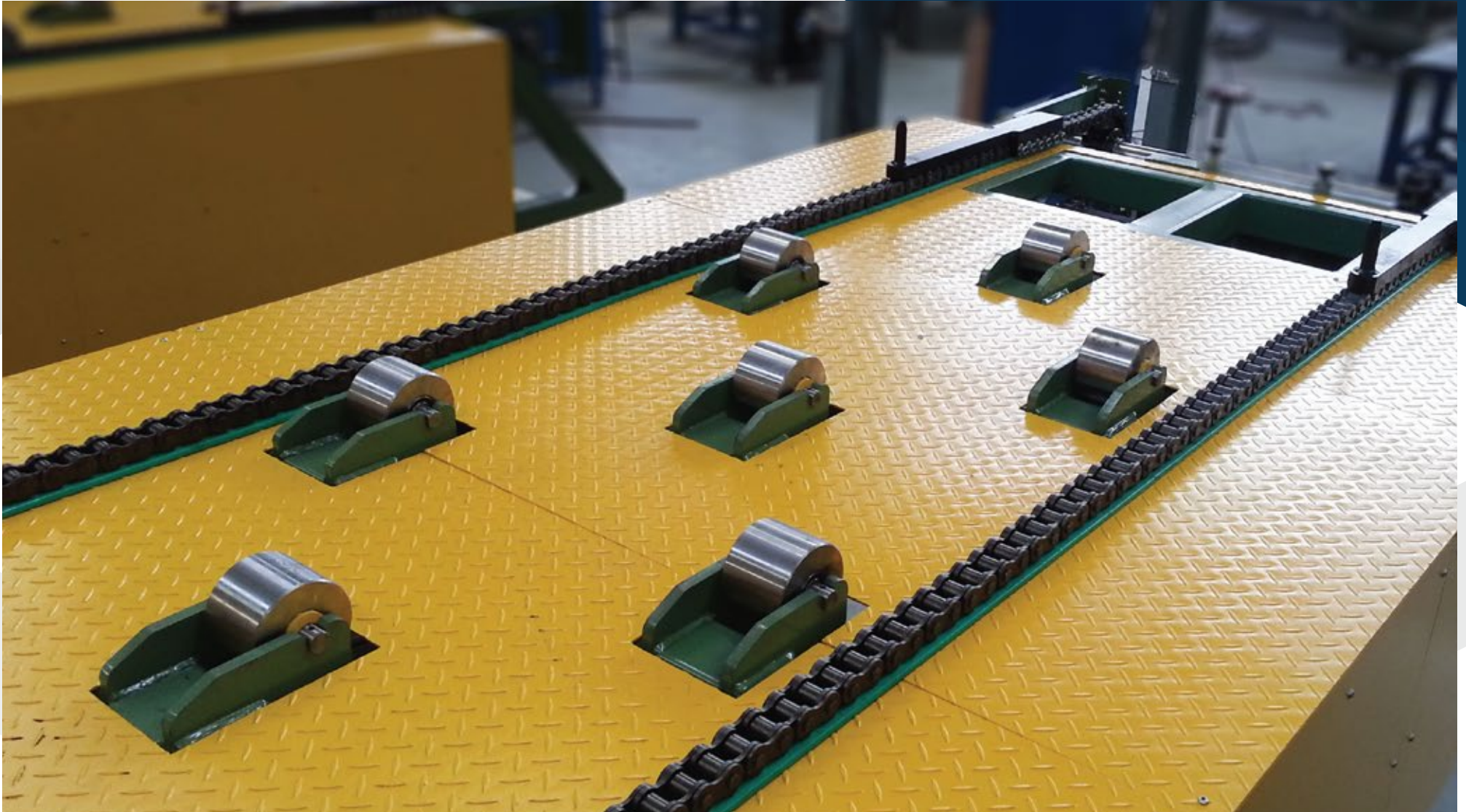
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# 10 Ton Rubber Mould Extraction Scissors





## 10 Ton Rubber Mould Extraction Scissors

Special lifting platforms, scissors lifting platform with chain conveyor for mould movement and production optimization.



## 20m Scissor Ceiling Jig Lifting Table

Directech designed, manufactured and installed two 20m long scissor lifting tables. This table can go up to 1800mm but capped at 900mm. The purpose of this scissor table is to lift the ceiling installation jig together with the assembled ceiling (total mass of 2+ tons) in order to drive the ceiling installation jig into the train car, lifting about 900mm pony bogies.



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Train Maintenance  
Tools




## **Train Maintenance Tools**

These are tools used for the maintenance of the new trains.



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# Train Water Tightness Test Gantry



## Train Water Tightness Test Gantry

This is a water test tightness system fitted at one of our rail based customer. This system is fitted at the customer site for testing water leaks after maintenance and refitting of train body parts.

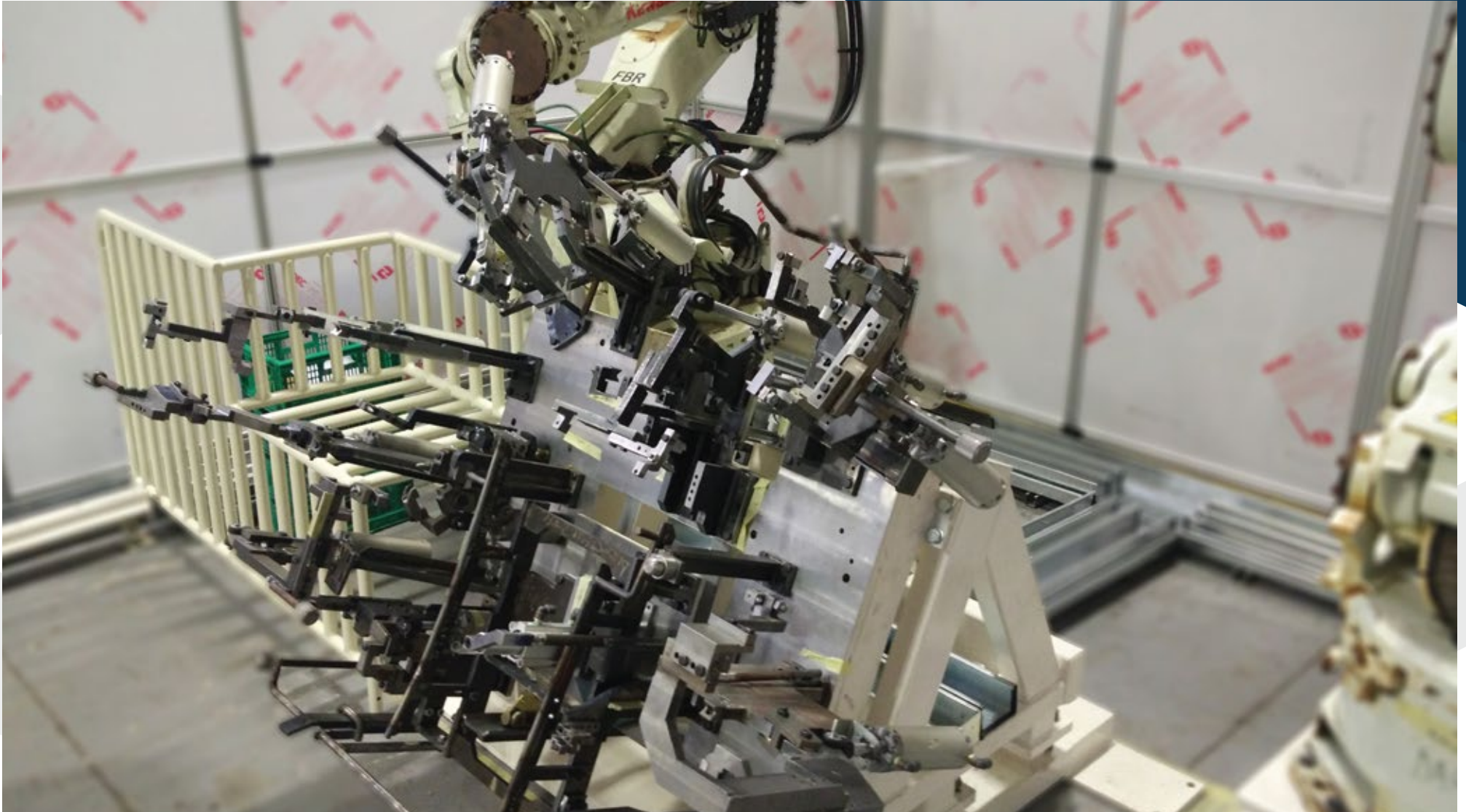


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A photograph of an industrial robotic assembly line. In the foreground, a yellow robotic arm is positioned over a conveyor belt. The conveyor belt has several red cylindrical components, possibly rollers or spools, arranged in a row. The background shows more industrial machinery and a blurred factory environment. The image is overlaid with a dark blue diagonal banner that contains the company logo and text.

Jigs & Robotics  
Solutions

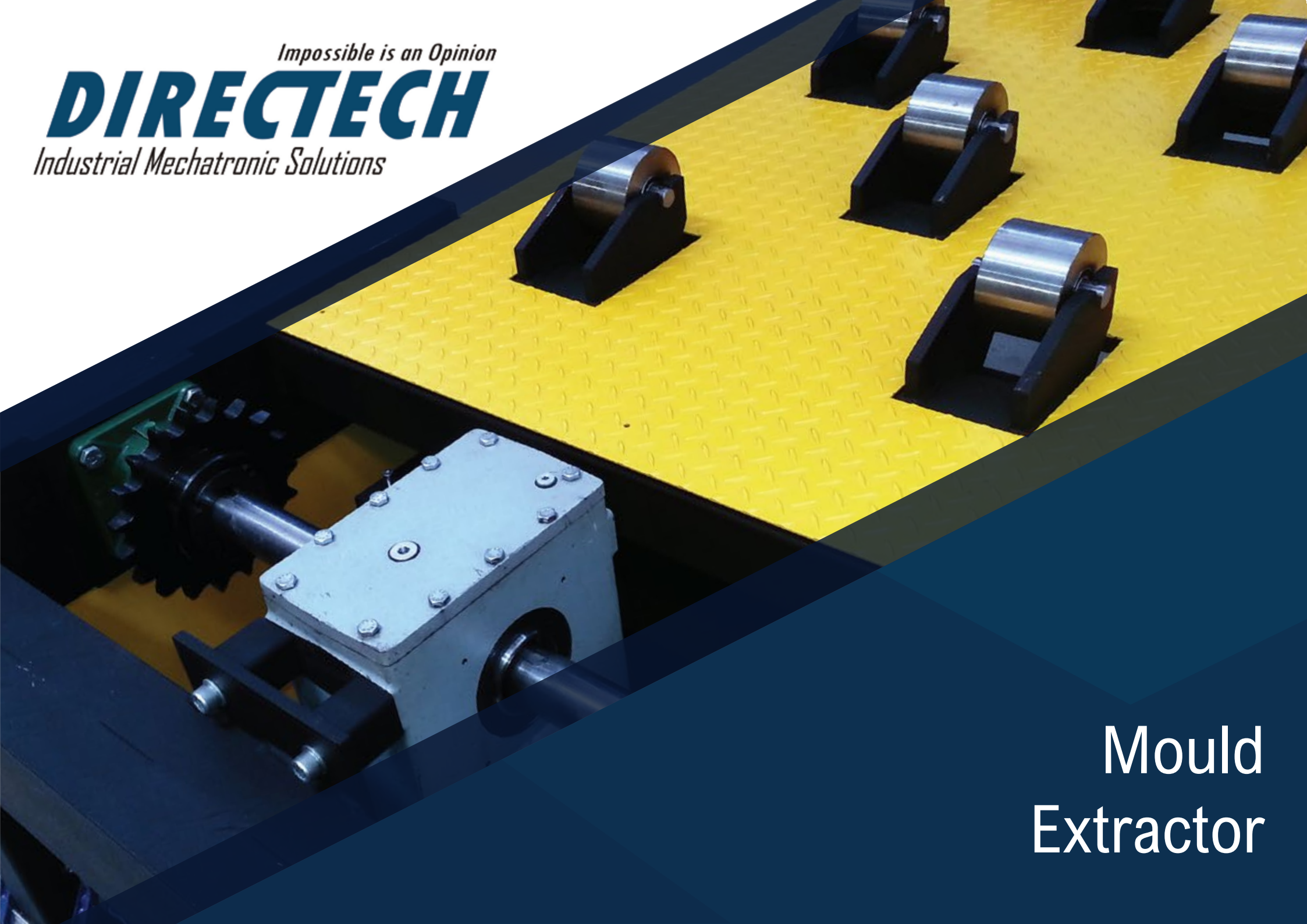


**Jigs & Robotics Solutions**

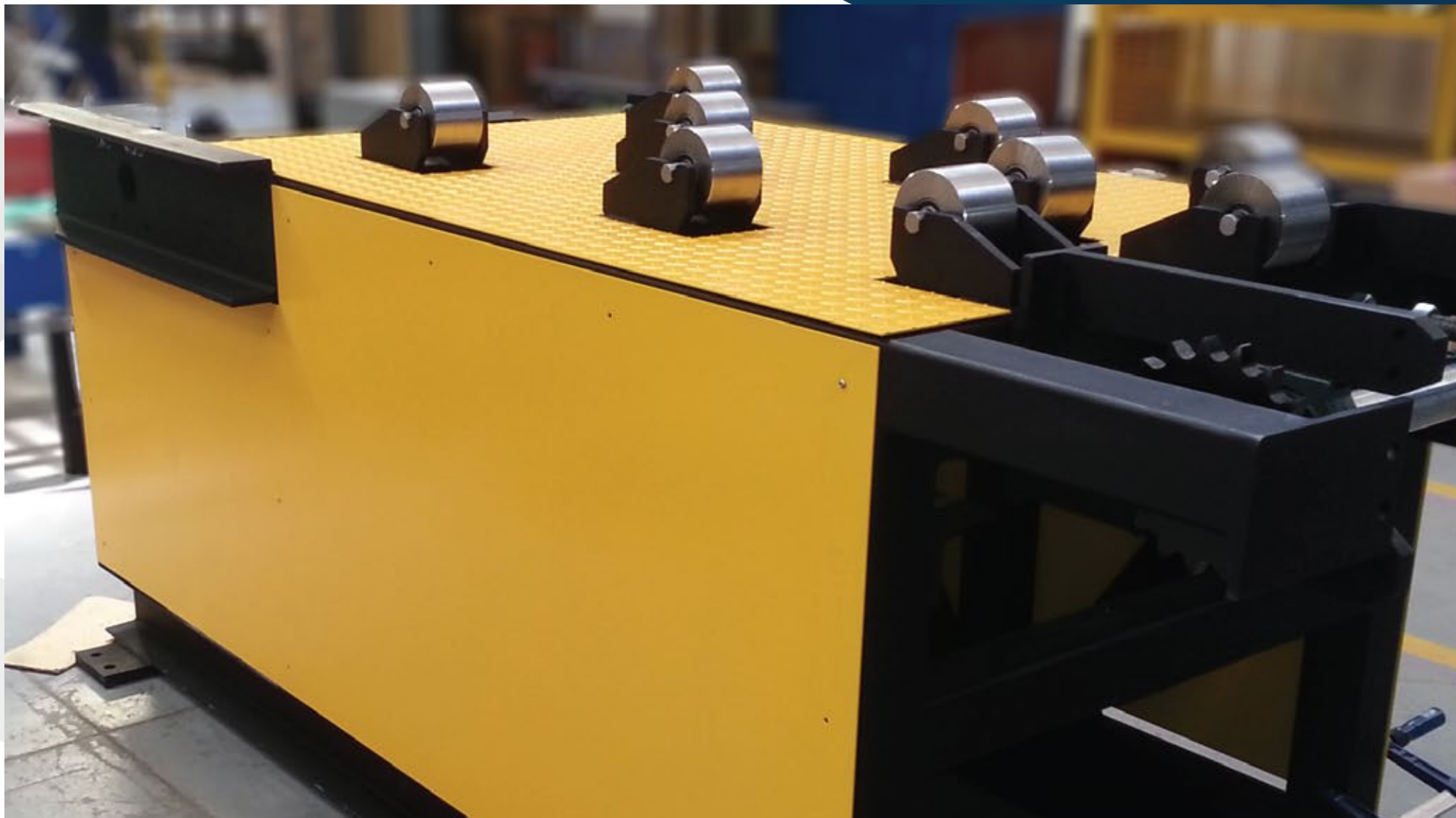


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Mould  
Extractor



**Mould Extractor**



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A photograph of a large industrial facility, likely a train testing and commissioning platform. The image shows a multi-level structure with yellow safety railings and stairs. The background features a brick wall and a high ceiling with industrial lighting. A dark blue diagonal overlay covers the right side of the image, containing the text 'Train Testing & Commissioning Platforms'.

**Train Testing &  
Commissioning Platforms**





## Train Testing & Commissioning Platform

Directech has designed, manufactured, and installed about 500m long double deck platforms with aluminium mobile platforms for a customer in the rail industry. These platforms are used for testing newly built trains before handing them over to their customer.





## **Train Testing & Commissioning Platform**

These are aluminium mobile platforms made out of ITEM aluminium profiles.

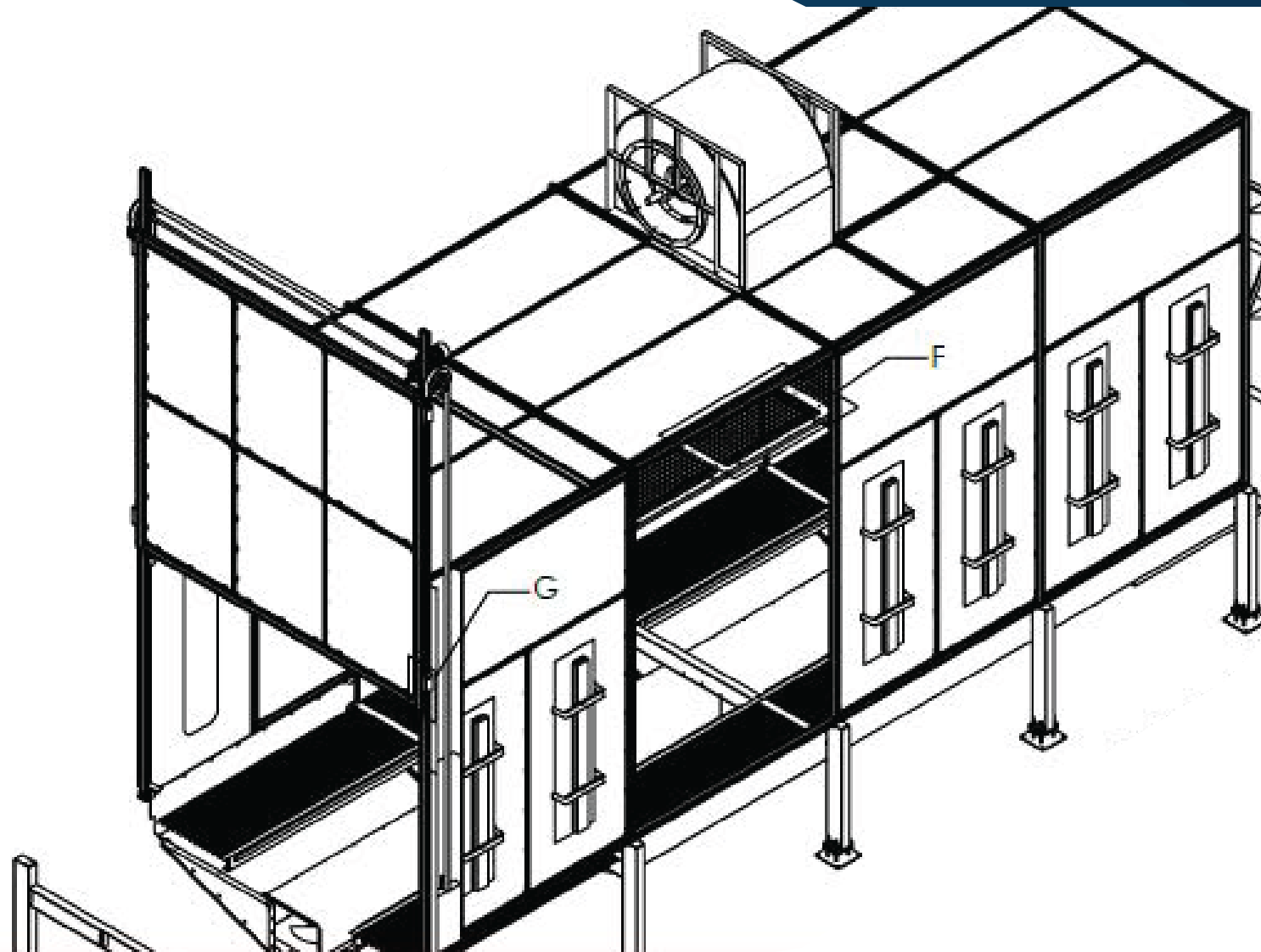
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Directech Paint  
Booths & Ovens






**Directech Paint Booth & Ovens**

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Container Type  
Diesel Power  
Generators





## Container Type Diesel Power Generator

Custom Built Generator sets have been designed, engineered and precision assembled to provide reliable and low-cost power, with specific configurations to suit your requirements. 5kVA - 5000kVA



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