

Impossible is an Opinion

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

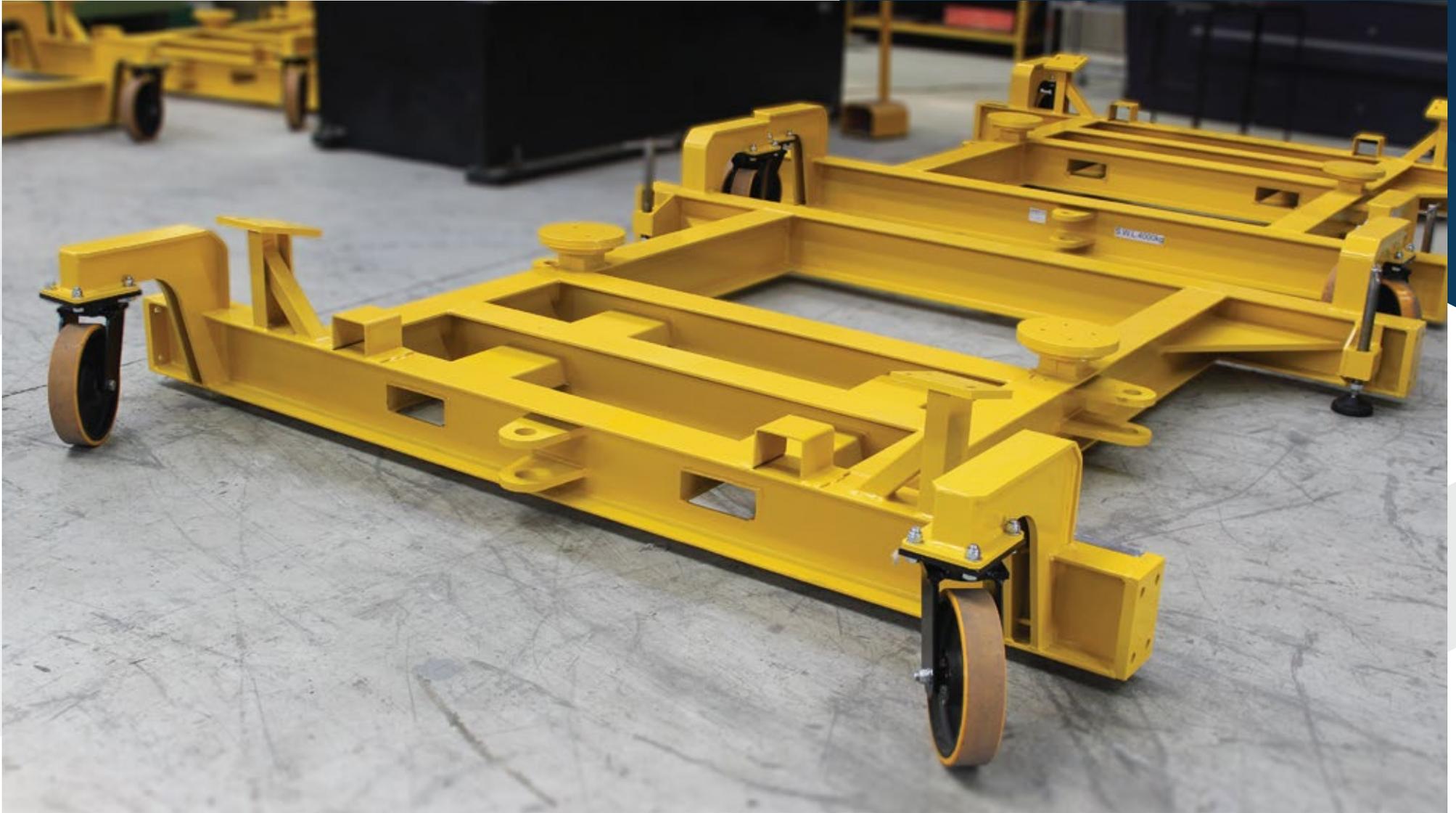
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Train
Cabin Jig



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



**Crate Washing
Machine**



Crate washing, sanitizing, drying and stacking machine

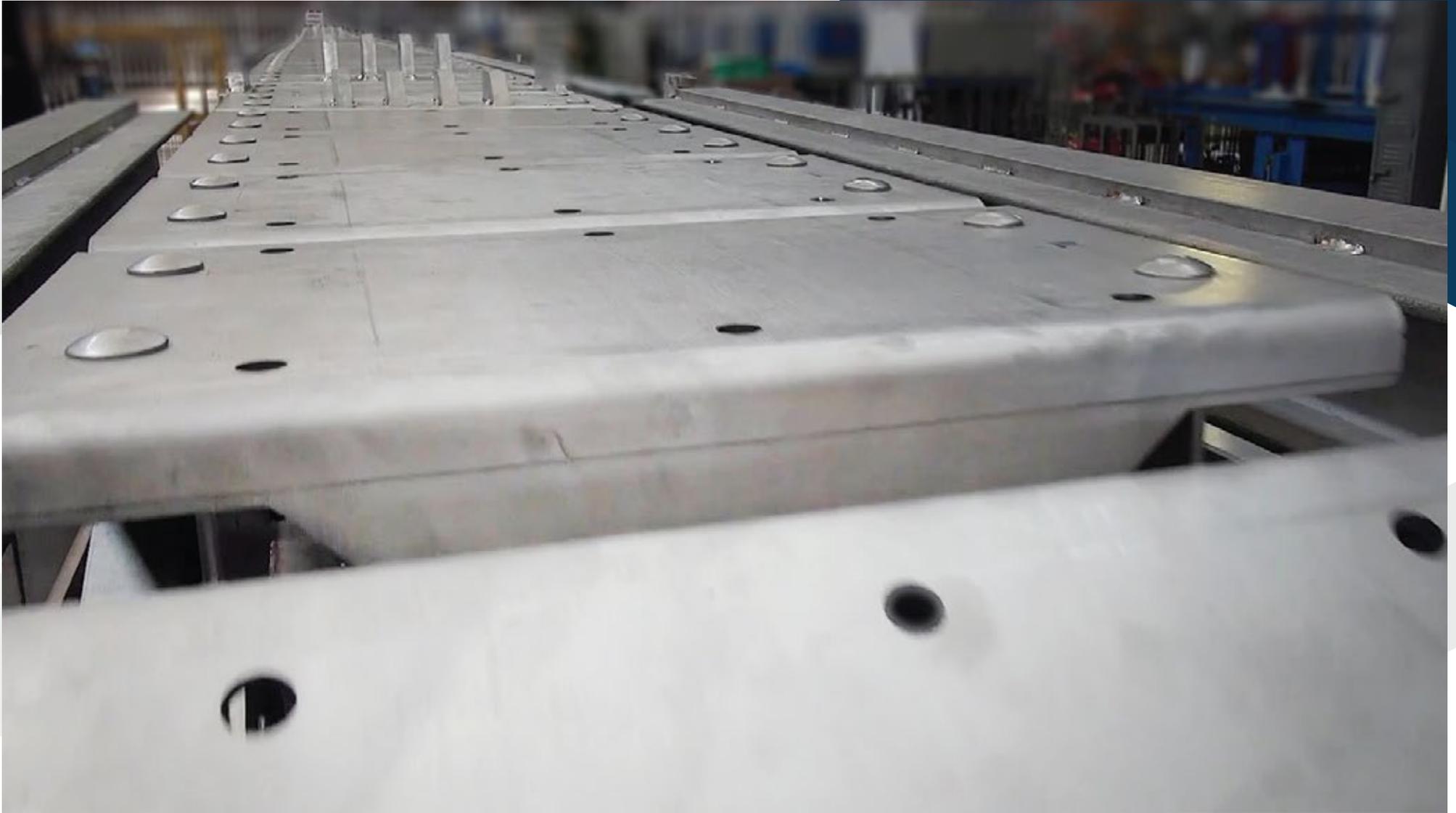
This machine was designed and manufactured by Directech all within 3 months. The purpose of this machine is to clean, sanitize, dry and stack about 25000 crates of different sizes, all within an 8 hour shift.

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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.

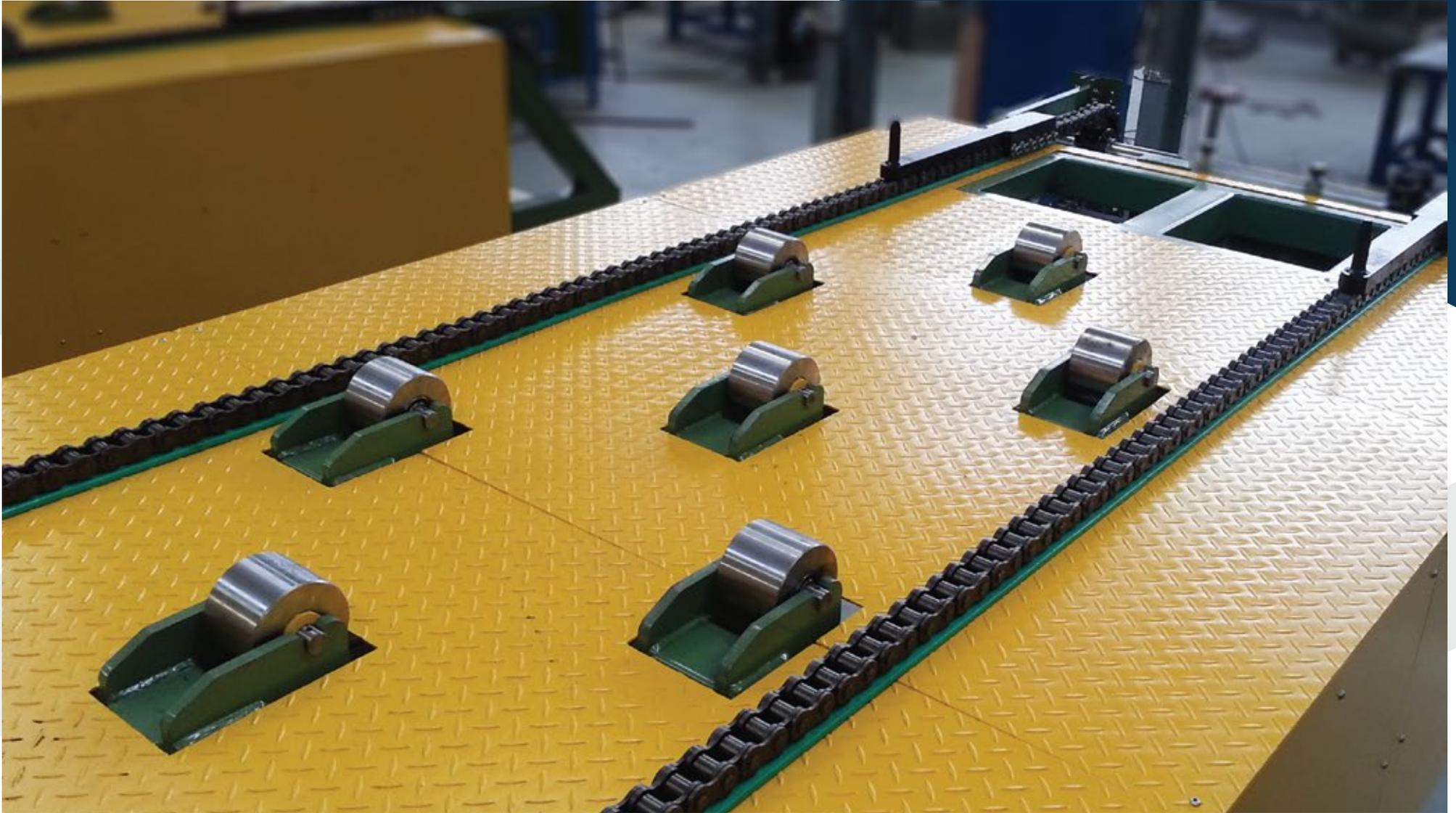
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10 Ton Rubber Mould
Extraction Scissors



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.

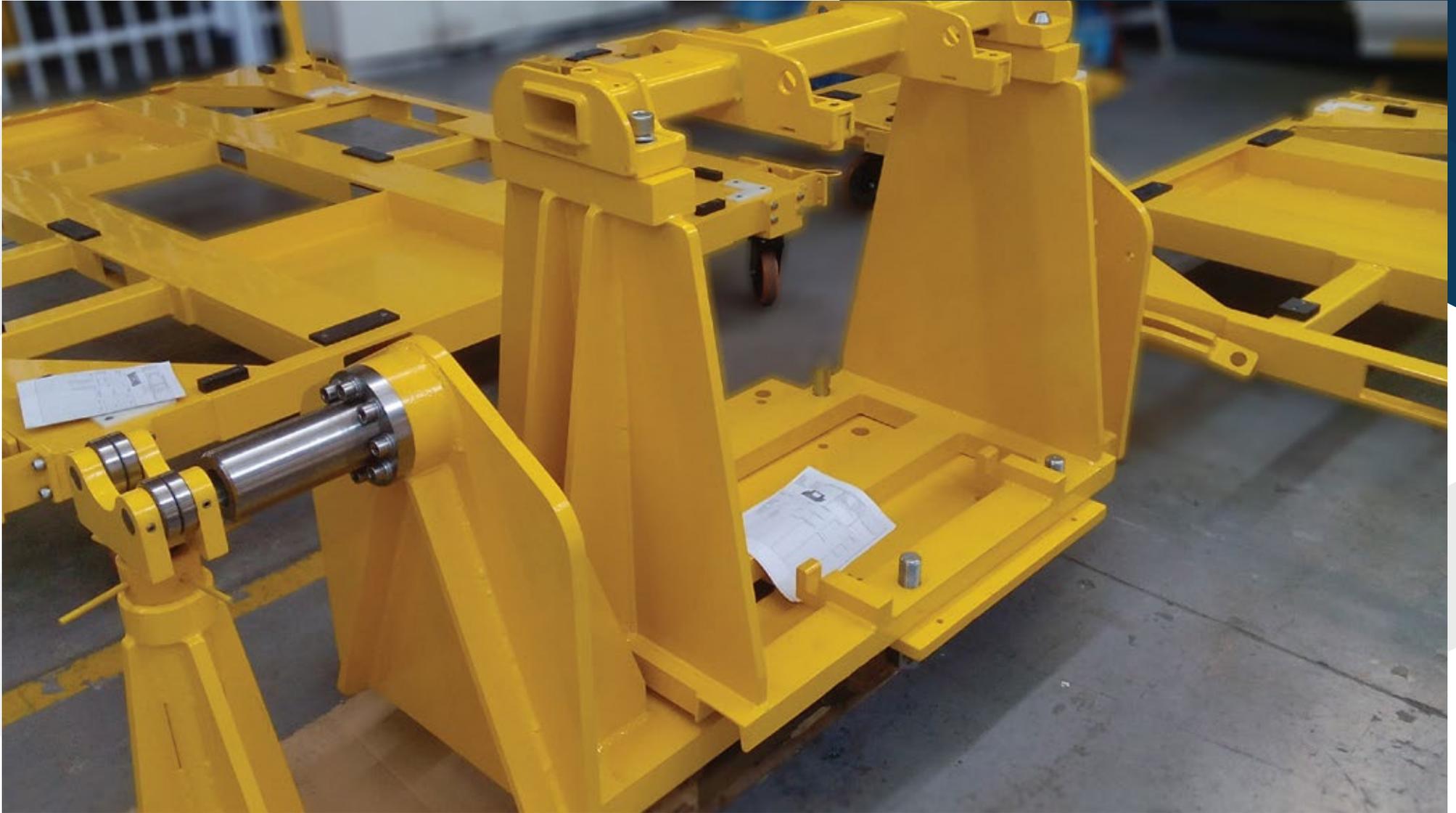
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**Train Maintenance
Tools**



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.

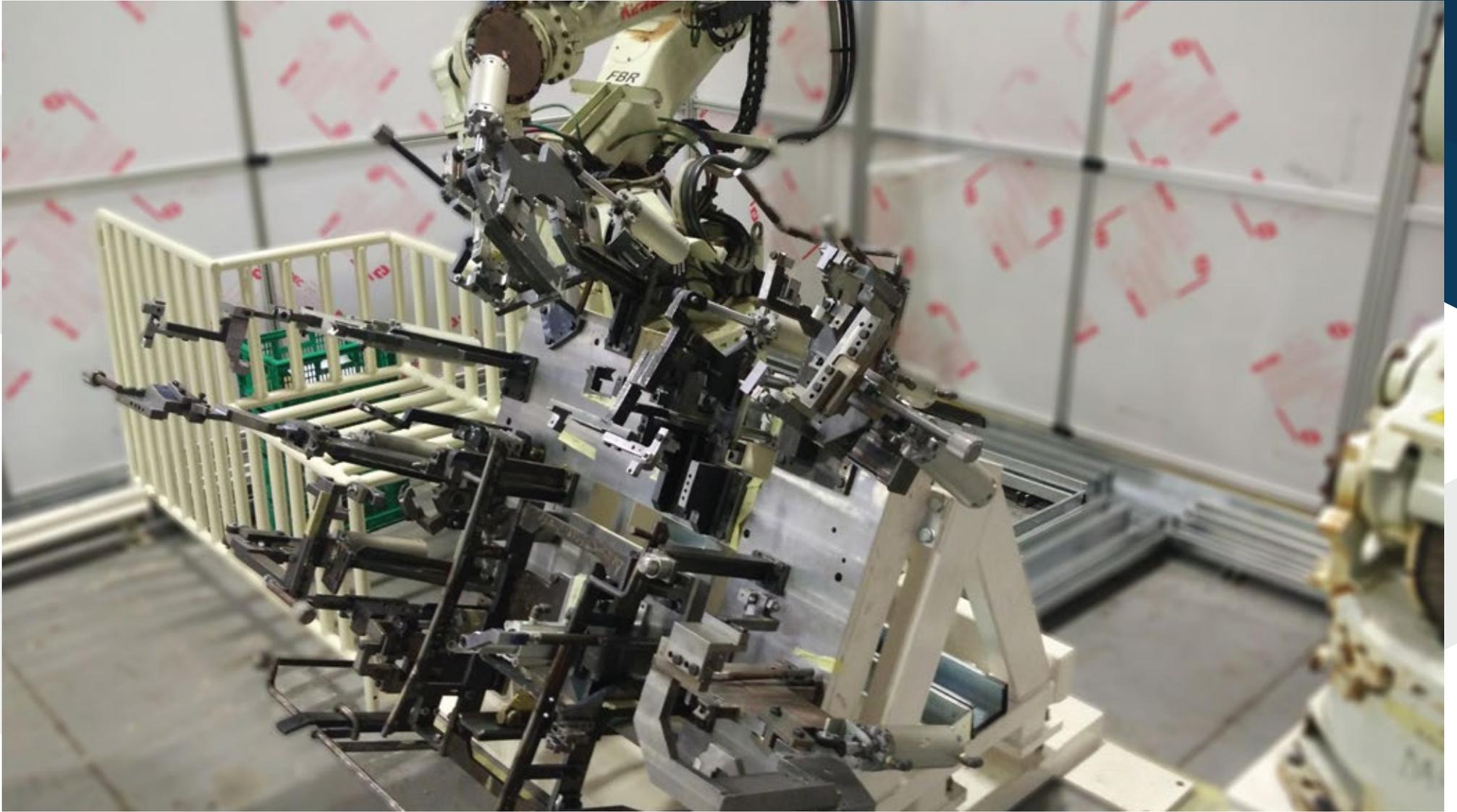
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Jigs & Robotics
Solutions

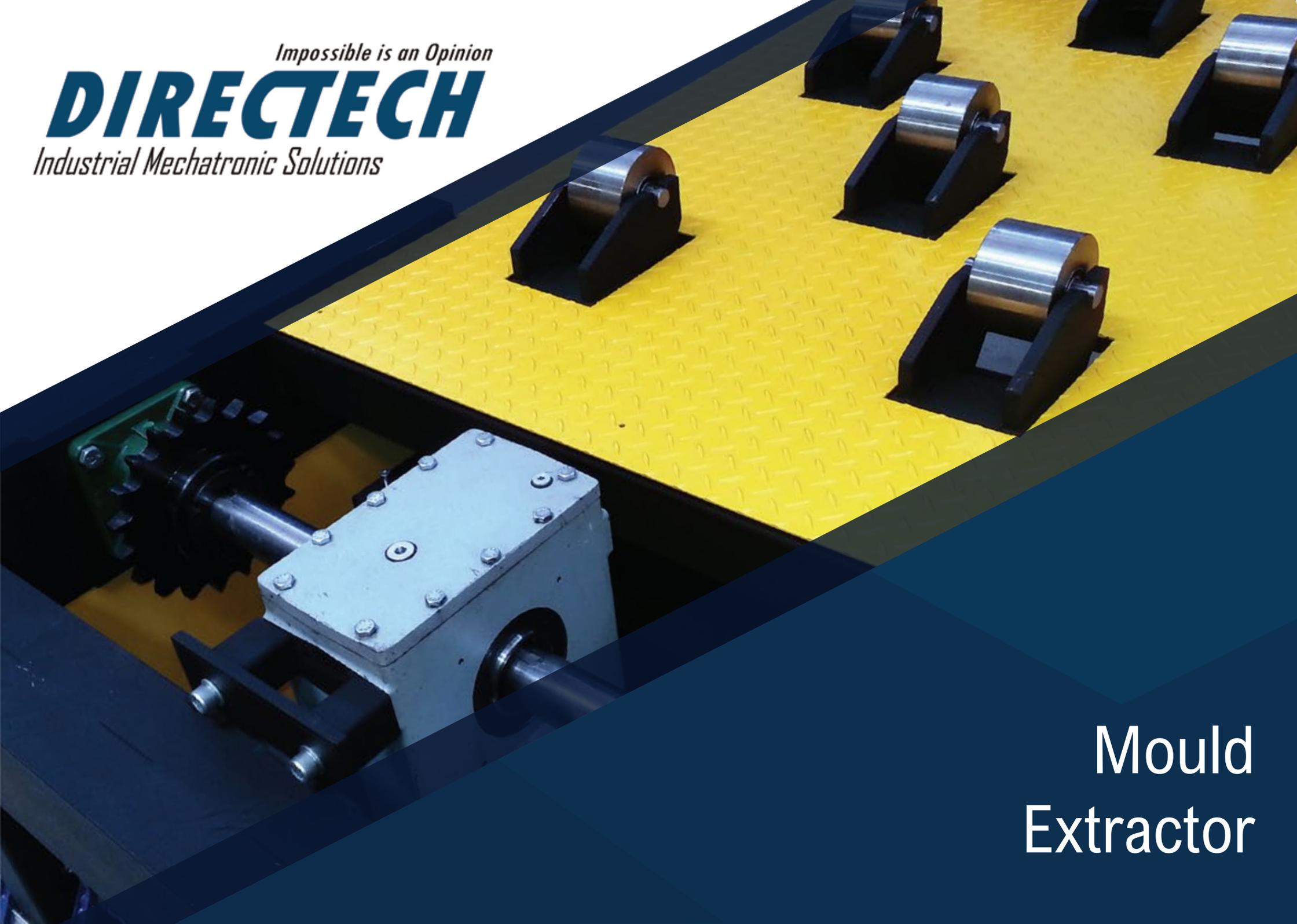


Jigs & Robotics Solutions

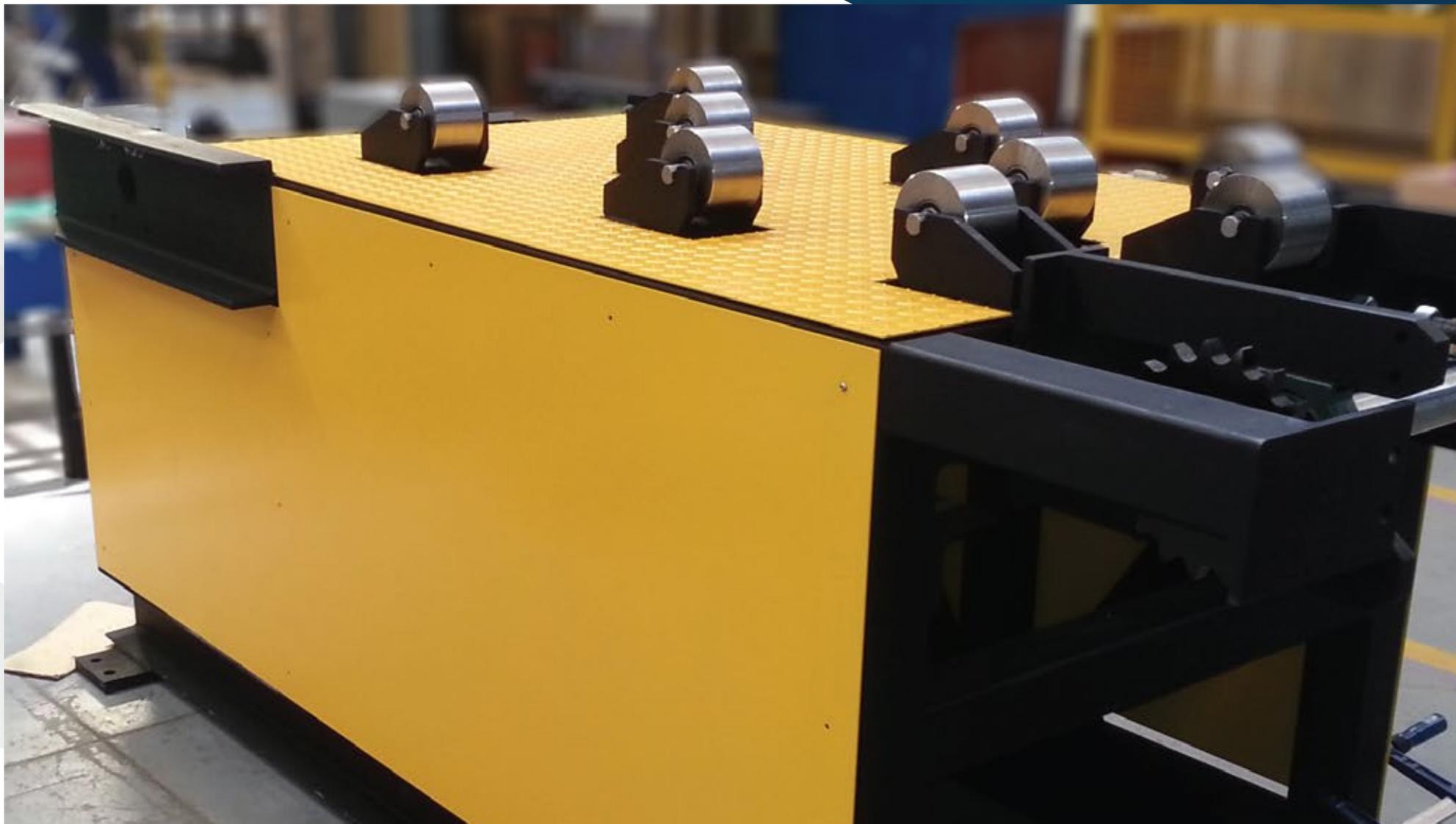
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Mould
Extractor



Mould Extractor

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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.

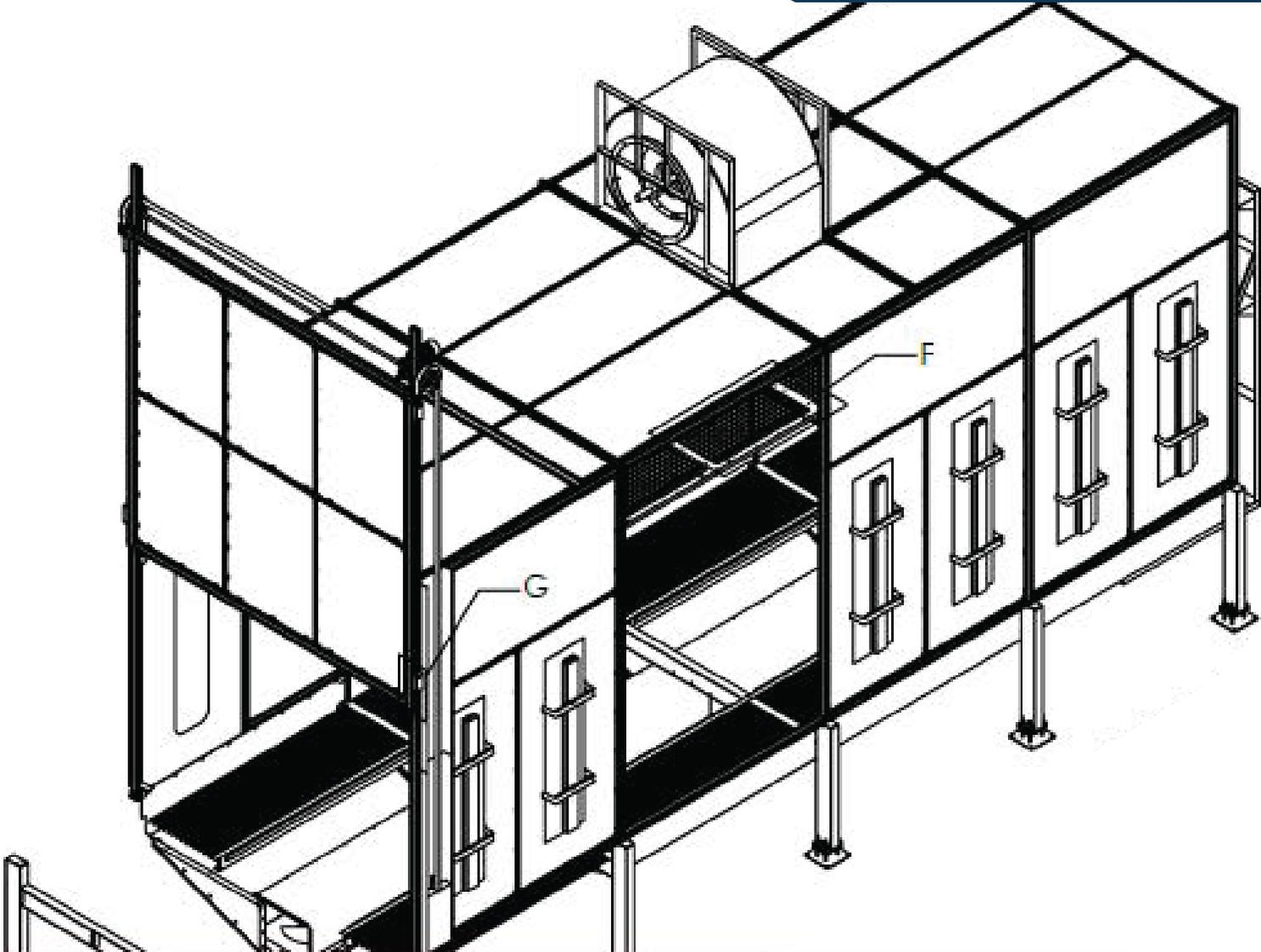
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A large industrial paint booth with a yellow conveyor system in the foreground. The booth has a white exterior and a dark interior. The image is overlaid with a dark blue diagonal graphic.

Directech Paint
Booths & Ovens



Directech Paint Booth & Ovens

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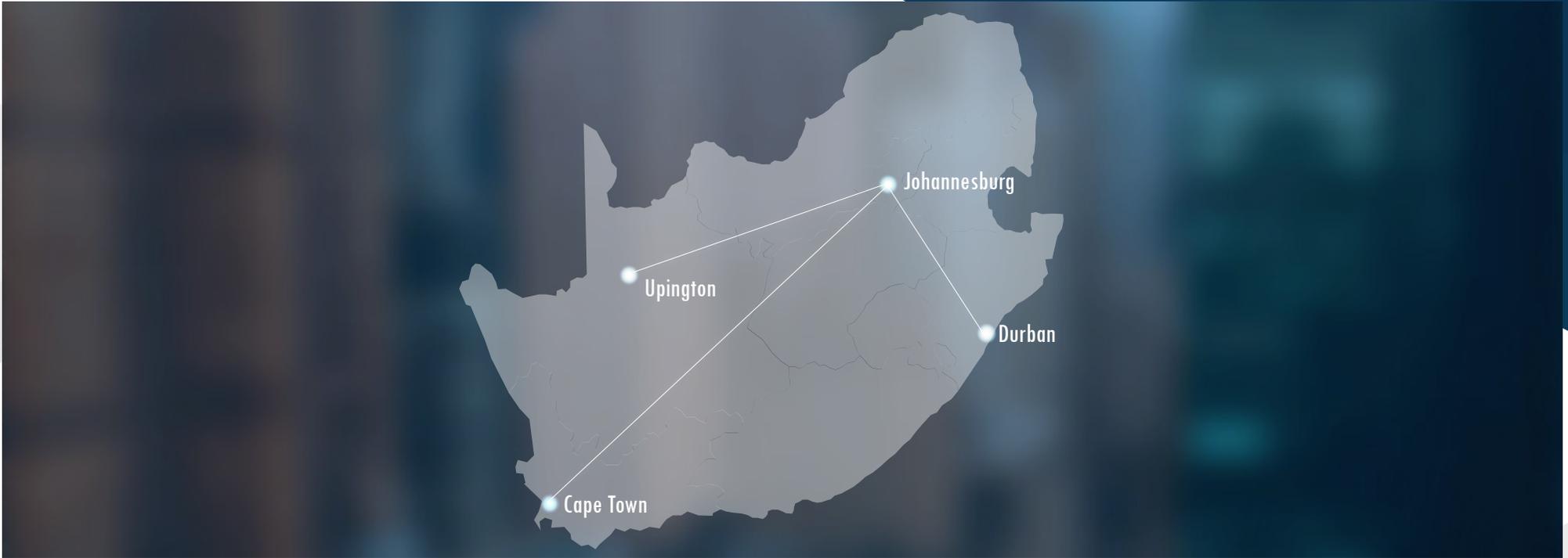


Container Type
Diesel Power
Generators



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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