



# RAILWAY

MAINTENANCE EQUIPMENT

RAILWAY VEHICLE  
ACCESS SOLUTIONS

From lifting jacks to train traversers, CoxGomyl Railway maintenance capabilities include a full range of engine and carriage lifting equipment, all built to European manufacturing standards. All products utilise the latest advances in electrical and mechanical design and materials. These extremely powerful machines are capable of very high loading, which is generally measured in tonnes. (indicated as Tm)

Like all of the company's renowned building maintenance units (BMUs), CoxGomyl Railway products are accredited to the international quality management system EN-ISO 9001: 2000, ensuring customers enjoy the peace of mind that all products are designed to the most stringent quality standards.

Through the application of technical knowledge gained through over 50 years of designing and manufacturing heavily engineered lifting equipment, CoxGomyl has developed a wide range of innovative railway maintenance equipment that has been proven in the workshops of leading railway companies around the world.



#### Lifting Jacks & Lifting Portals

Lifting jacks and portals provide a means of jacking engines and carriages enabling easy access for maintenance and repair.

- Mechanical spindle drives with abrasion control on main nut
- Synchronized movement control of 2 -16 units
- Adjustable height supports with loading control
- Load capacity:  
Jack: up to 35 Tm/ jack  
Portal: up to 2x35 Tm/ portal.



#### Maintenance Platforms

Either wall bottom or roof mounted, maintenance platforms provide a means to access all sides and the roof of vehicles without obstructing the ground level.

- Mechanical and electrical interlock of access doors
- Safety sensors and control interlock
- Mechanical over speed control for descent
- Backup manual descent device
- Lifting capacity: up to 240Kg
- Lifting height: up to 5m



#### Bogie Inspection Stand

This stand provides safe, close access to the bogie for inspection. The bogie is pivot mounted and the stand can be lifted.

- Load capacity up to 4 Tm/ stand
- Adjustable height supports with loading control.

### Mobile Access Platform

The platform provides safe and comfortable side and roof access, applicable to narrow passages.

- Sliding platform for gap bridging
- Trip-bar for vehicle protection
- Secured battery drive system
- Load capacity: up to 240Kg
- Lifting height: up to 5.5m



### Bogie & Wheel Set Drop System

This drop system provides for the safe interchange of bogies and wheel sets without the necessity to lift the vehicles.

- Dimensions as per request
- Maximum load capacity up to 75 Tm
- Mechanical lifting spindle drive x 4, synchronized
- Controlled position for all movements
- Carbody supports
- Traversing and elevation control by PLC's.



### Mobile Traversing Devices

These innovative traversing devices offer a convenient way to move heavy loads.

- Load capacity up to 30 Tm
- Pendant control
- Synchronized movement control.
- Lifting height : up to 2m



### Rail Drop System

For elevated track systems in the depot the rail drop system, provides access to the underside of the carriage by lowering the tracks, allowing the wheel set, motor and air conditioning units to be inspected, maintained and replaced.

- Mechanical lifting spindle drive x 4, synchronized
- Dual safety control circuits for all movements, services and emergency stops
- Signal systems for vehicles moving in and out
- Possibility to incorporate scissor lift platforms between tracks to assist in component replacement
- Lifting capacity: up to 12Tm
- Lifting range: up to 1.2m



### Train Traversers

Traversers are designed to transport heavy-duty rail vehicles between depots and/or different tracks

- Capacity and dimensions as per customer request
- Visual, acoustic and signaling during traversing movement
- Dual control signal from the cabin or by radio control.



## Common Safety Features

- All leveling and synchronized movement carried out by encoders and PLCs
- Lifting systems utilize fail safe mechanical spindle drives coupled with gear-motors and double safety nut system. Abrasion control in main nut
- Dual safety control circuits for all movements, service and emergency stops
- Flashing and audible movement alarms
- Guard rails and safety measures are in accordance with European standards EN 85237
- Overload devices and alarms
- Overspeed brake, for the mobile access platforms
- Interlock devices to prevent the operations under the overhead power lines
- All welding is carried out in accordance with the most stringent standards: EN 729-2, EN 15614-1. All welders are certified to UNE EN 287-1
- Equipment complies with the current European Machinery Directive: 2006/42/EC
- Equipment complies with European standard for electrical equipment of machines: EN 60204-1.

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