

UNDER FLOOR LIFTING SYSTEMS



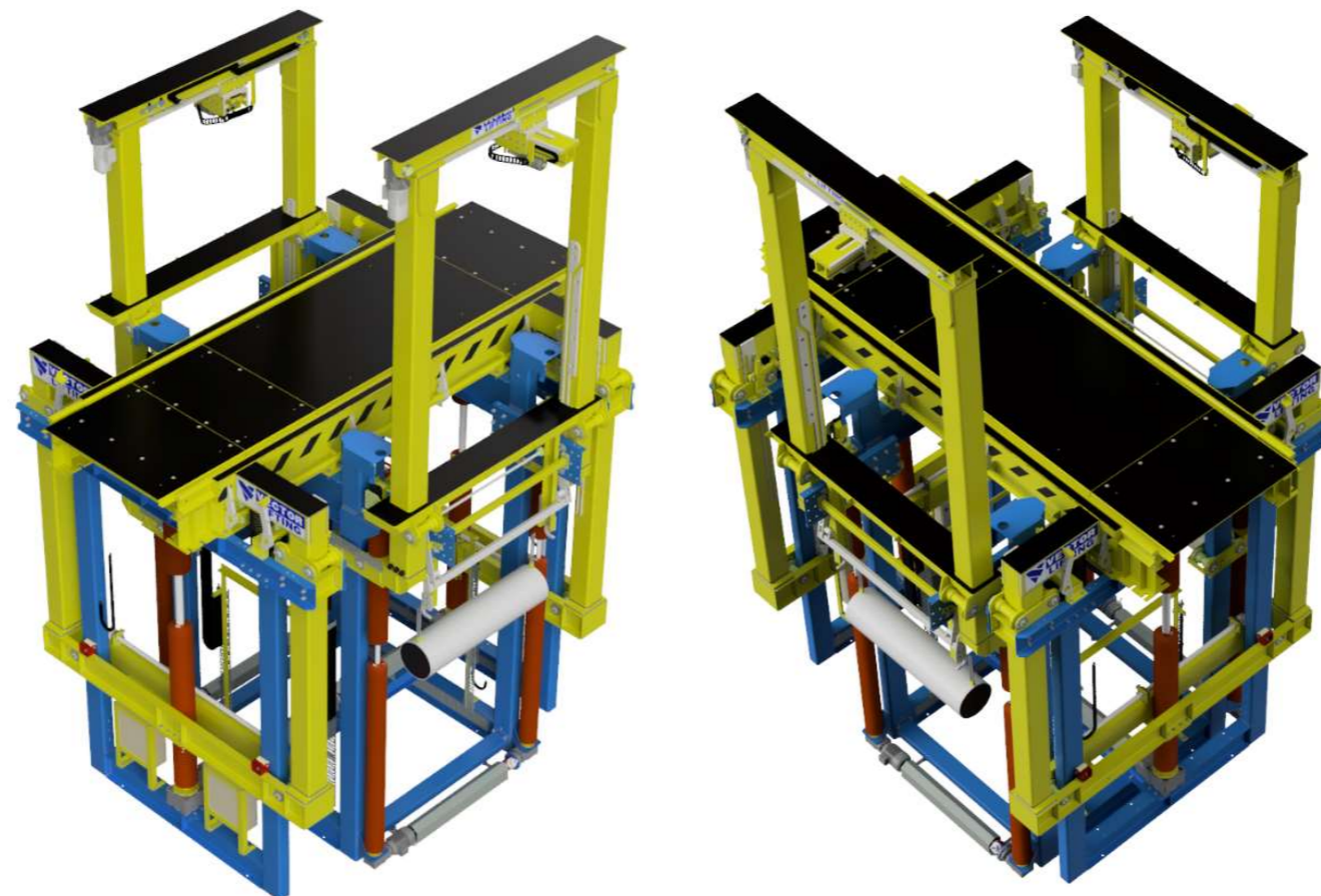
Under Floor Lifting Systems (ULS) Overview

- The Vector Lifting ULS has been developed to provide a flat trafficable floor in the maintenance depot when the system is not in use.
- The ULS is an Underground system which is capable of synchronised lifting of a single car or a multiple car configuration and lowering one or multiple bogies simultaneously
- The ULS consists of lifting rails and body supports used to lift the car configuration and support the body during bogie maintenance
- When a lift rail is raised; sprung covers are used to ensure a flat trafficable floor within the facility.
- With a combination of ultra-long lift rails and traversing body supports – a wide range of vehicle sizes and configurations can be catered for



Compliance

- 100% Australian designed and manufactured in our Perth facility in Compliance With
 - AS/NZS 9001
 - AS 1418
 - AS/NZS 1554
 - AS 1710
 - AS/NZS 3000
 - AS/NZS 3008
 - AS 3569
 - AS/NZS 4024
 - AS/NZS 4680
 - AS 4024
 - Local/International Standards as Required
- Fully Assembled & Tested Prior to Dispatch Including Load Test



Quality Assurance

Vector Lifting is certified to ISO9001; thus, ensuring consistent high-quality products for our clients

Materials Data Record (MDR) provided inclusive of:

- Inspection & Test Plan (ITP)
- Certificate of Conformance
- Technical Query Register
- Material Register & Certificates
- Third Party Certificates
- Welding / NDT Requests & Weld Maps
- Welding / NDT Reports
- Weld Procedure Specifications & Register
- Welder Register & Qualification Records
- Surface Treatment Reports
- Non-Conformance Register & Reports
- As Built General Arrangement Drawings
- Factory Acceptance Test Reports
- Electrical Test Records
- FAT & SAT Records

Fully Customisable

To Meet Client & Site Requirements Systems Can Be Fitted With:

- Traversing Body Supports
- Fixed Body Support Locations
- Mobile Body Supports (unpowered)
- Pendant(s) or wireless control
- LED Work Lights
- Services such as air, water, vacuum etc.
- 10A/15A GPOs
- Custom Surface Treatment
- Custom Decals
- Depot Protection System Integration

Under Floor Lifting Systems (ULS) Features

- Self-Locking Lifting Spindle – No possibility of uncontrolled load movement
- Sealed Bellows Around Spindles for superior dust Protection
- Lift Synchronisation across all lift rails and body Supports in Group Mode (All Cars) or Individual Mode (Single Car)
- Lift Nut Wear Detection
- Full Capacity Secondary Safety Nut
- Obstruction Detection
- Programmable Lift Heights
- Adjustable Body Support Locations, adjustability is longitudinally, laterally, and vertically to the rail track. Alternative System Builds Can Have Reduced Adjustability if Required
- Systems Are Supplied with Load Detection for Lift Rail & Body Supports – Used for Load Engagement and Overload Protection
- Sprung Covers Under Lift Rails to Ensure a Flat Trafficable Floor During Lifts
- Wheel Chocks/Clamps on Lift Rails as Required
- Pendant or Wireless Remote with Backup Operation From MCC
- Warblers & Beacons
- Fully Guarded to AS 4024
- Systems Are Supplied with All In-Ground Castings Required Including:
 - Anchor Cages
 - Fixed Rails
 - Lift Rail Recess Assemblies
 - Cover Plates & Access Hatches





Under Floor Lifting Systems (ULS) MCC Features

MCC complete with:

- Main Isolator
- Main contactor
- Circuit Breakers for over current and short circuit protection of motors
- Contactors & Overloads for Bogie Lift Rail and Body Support operation
- Control relays
- Control circuit breakers
- Phase Rotation/Failure relay
- Programmable Logic Controller (PLC)
- Emergency Stop push button.
- Selector switches for group selection
- Push buttons for system group operation
- Indication lights for system status and faults
- Radio Receiver
- All functions Are Interlocked to Prevent Incorrect Operation
- Hold To Run Controls
- Warblers & Beacons
- Pendant or Wireless Remote with Backup Operation From MCC
- Warblers & Beacons

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