

Panel Lifter System

Revolutionising the method of removing & replacing rail panels



McCulloch
GROUP

Made for rail people, by rail people.

A new solution for rail movement and track construction.

With our technology, worldwide rail track maintenance and construction projects are completed in less time with reduced operational costs.

Established in 1992, McCulloch Group are specialists in railroad solutions. Our bespoke and patented machines eliminate manual handling and improve the accuracy and productivity of installations.



Adjustable track width

allowing use in narrow environments

18 tonnes

per pair of Panel Lifter

Approved

in various networks worldwide

Suitable for single line, multiple track & tunnel layouts

Maximise efficiency. Save time. Save money.

Panel lifters are completely remote control, creating an instant exclusion zone and eliminating any handling issues. The speed of removal is critical during limited possession timescales to enable rework of the track foundation ahead of replacement of the rail and sleepers. McCulloch Group have designed and developed the unique Rail Panel Lifter system and have been using this system successfully within the UK for 10 years. The Panel Lifter revolutionises the method of removing and placing rail panels swiftly and safely with greater efficiency in comparison to all other methods.

Features & Benefits

- 9 tonne lifting capability per Panel Lifter
- Fully certified to work across the rail network, including under live Overhead Line Equipment (OLE) and Any Line Open working (ALO)
- A fully loaded Panel Lifter System can turn in any direction whilst in motion
- Variable track width allowing access and use in narrow environments such as bridges, tunnels and cuttings
- Ideal for removing and installing panels on a single line
- Can easily cross multiple tracks
- Works with all types of panel, including narrow and broad gauge track
- Compact size and manoeuvrability enables easy transportation, rapid deployment and demobilisation
- A panel lifter system of two machines can be used to move panel lengths of up to 90ft (27 m) long. More machines can be added to move longer panels





Panel Transportation Trailer System

Maximising safety on site is key to any project. Loading panels onto transportation trailers clears the site as panels are removed, improving the safety of the whole process.

Panels can be stacked up to four high and each trailer can carry up to 50 tonnes. It takes only 60 minutes to comfortably remove and load 740ft (225m) of old panels. In comparison, unloading and installing the same length of track would take 90 minutes.



Performance Specification

A diesel powered, remotely operated, tracked vehicle with a unique clamp system for handling track panels.

VEHICLE CHARACTERISTICS

- Width:** 2465mm (retracted), 3865mm (extended)
- Height:** 2550mm (retracted), 3720mm (extended)
- Base weight:** 4.7 tonnes per machine
- Lifting capacity:** 9000kg per machine
- Adjustable beam attachment** available to suit any gauge or form of rail
- Fuel capacity:** 90 litres. Sufficient for 2 x typical 10 hour shifts

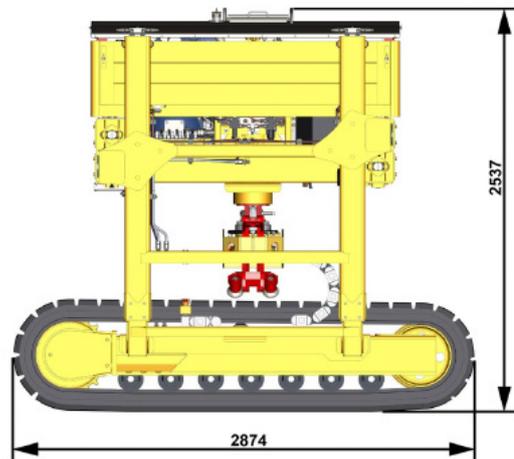
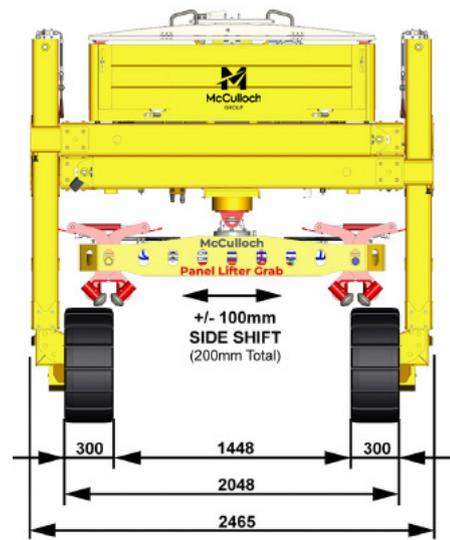
PERFORMANCE CHARACTERISTICS

- The Panel Lifter machines are designed to work in pairs to handle any gauge or material of track
- Compact size and manoeuvrability enables easy transportation, rapid deployment and demobilisation
- Travels safely at gradients of 11° before alarm setting is triggered
- Can easily cross all types of rail track
- In the event of an engine power failure, the Panel Lifter can be moved off the rail infrastructure utilising the approved recovery system

Compliance

The Panel Lifter is fully approved for use on the UK Rail network by Network Rail and The London Underground network

- Can be operated under live OLE when safe working system is in place.
- EMC Certified to EN50121.
- The Control of Noise at Work Regulation 2005 - Noise level at operators' ear 76dB (A), engine idle / 84dB (A) engine full at 1m radius.
- EU Stage V US, Tier 4 Final compliant engine limits emissions exposure.
- Independent operator control ensures instant exclusion zone.



Reference	Retracted	Extended
Track Gap	1488mm	2800mm
Vehicle Width	2465mm	3865mm
Vehicle Height	2542mm	3692mm
Track Width	300mm	300mm
Track Height	670mm	670mm
Track Length	2855mm	2855mm

Reference	Retracted
Machine Tare Weight	4.7T
Cross Vehicle Weight	12.0T
Main Ram S.W.L	7.3T

Reference	Travel
Leg Vertical Travel	1150mm
Leg Horizontal Travel	1400mm
Main Ram Horizontal Travel	±125mm
Main Ram Vertical Travel	750mm

Reference	Capacity
Diesel Fuel Capacity	100L
Hydraulic Tank Capacity	200L
Engine Oil Capacity	9.5L
Engine Coolant Capacity	8.0L

All international and domestic enquiries welcome. Get in touch to learn more about our products.

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