



Material and Personnel Handling Product Suite

OUR COMMITMENT TO MINING SAFETY AND PRODUCTIVITY RUNS DEEP.

CANADA | USA | MEXICO | PERU | SOUTH AFRICA | AUSTRALIA

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MacLean Material and Personnel Handling Equipment: Versatility that delivers!

In the fast-paced and ever-evolving mining and industrial sectors, efficient material handling plays a pivotal role in maintaining productivity and safety. MacLean, a globally recognized leader in underground mining equipment, stands out with its robust line of material handling solutions. These machines are designed to meet the rigorous demands of underground environments, offering unparalleled reliability, durability, and performance. Whether it's moving heavy loads in tight spaces or ensuring seamless transportation of essential resources, our equipment is engineered to deliver top-tier results under the most challenging conditions.

One of the defining features of MacLean's material handling equipment is its commitment to operator safety and ergonomic design. Every machine is built with the user in mind, incorporating advanced features such as intuitive controls, enhanced visibility, and state-of-the-art safety systems. This focus not only improves efficiency but also reduces the risk of accidents, creating a safer working environment for all involved. Moreover, the company's dedication to innovation means that our equipment consistently meets and exceeds industry standards, pushing the boundaries of what is possible in underground mining.

Beyond functionality, MacLean is deeply rooted in its commitment to sustainability and long-term value. By investing in advanced technologies and prioritizing energy efficiency, the company ensures its equipment contributes to the broader goal of reducing environmental impact. Combined with world-class customer support and a legacy of engineering excellence, MacLean's material handling equipment is a vital asset for mining operations aiming to enhance productivity, safety, and sustainability.

Why MacLean?

Our material handling equipment is designed with parts commonality at its core, ensuring consistent components across multiple models. This approach simplifies inventory management and reduces the need for a large parts inventory, saving time and cost. By standardizing key components, we streamline maintenance procedures, allowing operations to run smoothly with fewer disruptions.

Maintenance teams can work confidently knowing they have the right parts on hand and easy access to the components they need. This translates into shorter service intervals, reduced operating costs, and maximized equipment uptime—delivering long-term value for your mining operations.

FR3 & FR5* Forklift



Features:

- Lifting capacity up to 6,000 kg (13,200 lbs)
- 2.56 m (8.4 ft) max fork heights
- Heavy duty frame construction
- Self-propelled, 4 wheel drive articulated carrier
- Certified ROPS/FOPS open canopy
- +20, -34 degrees fork tilt

Benefits:

- Designed to handle heavy loads on rough terrain.
- Optimized for tight spaces and narrow tunnels
- Built with rugged components to withstand harsh underground environments
- Superior hose, cable and harness management
- Ease of maintenance
- Quick disconnect ISO coupling system

Options:

- Available with battery electric or diesel powertrain options
- Full vehicle CAN bus (Controller Area Network) control and automation ready
- Canopy and enclosed cab option
- Options available for operating environments up to 50°C

Applications:

- Designed to excel in various material handling applications, especially in challenging underground environments. Whether it's transporting heavy loads, managing inventory, or supporting mining operations, our forklift provides reliability, efficiency, and safety to get the job done.

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant

BT2, BT3 & BT5* Boom Truck



Features:

- Up to 32,000 lbs (14,500 kg) payload
- 2.4m (8 ft) x 3.6m (12 ft) deck
- Heavy duty frame construction
- Bulk handling options
- Two stabilizing jacks
- Four wheel drive, articulated steer carrier
- Crane options to suit application

Benefits:

- Superior traction due to four-wheel drive and powershift transmission
- Low-cost, dependable mine supply vehicle
- Superior hose, cable and harness management
- Long-life power train using industry proven components
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points

Options:

- Available with battery electric or diesel powertrain options
- Canopy and enclosed cab option
- Radio or hard-wired 'CRANE' remote
- Vehicle monitoring and telemetry system
- MacLean Mine-Mate™ Folding Crane

Applications:

- Rapid handling and supply system for bulk materials in underground trackless mines (i.e. shotcrete, timber, drilling supplies, pipes, fans, specialized skids, pallets and ANFO)
- Transportation between surface and underground levels via internal ramp network

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant

DT2, DT3 & DT5* Deck Truck



Features:

- Up to 15,870 kg (35,000 lbs) payload
- Heavy duty deck with multiple configuration options
- Automatic Brake Application (ABA) with manual reset
- Heavy-duty plate construction with modular tear-down capability
- Certified ROPS/FOPS open canopy

Benefits:

- Low-cost, dependable mine supply vehicle
- Long-life power train using industry proven components
- Low cost, dependable mine supply vehicle
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points
- Clean-burning, fuel-efficient engine minimizes harmful emissions

Options:

- Available with battery electric or diesel powertrain options
- Enclosed cabin with heat and/or AC
- Fire suppression, Check-Fire™ auto detection and handheld extinguisher
- Vehicle monitoring and telemetry system
- Extended length deck
- Emergency steering system

Applications:

- Rehabilitation projects are conducted safely and efficiently from the level work deck, elevated to a comfortable work height
- Timely supply of materials and equipment to far-flung underground work places

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant

WS3 & WS5* Water Sprayer



Features:

- 7,500 L (2,000 US gal) carrying capacity of water
- Equipped with three spray bars that reduce the amount of dust in the air, maintaining respiratory health and proper engine function.
- Heavy duty frame construction
- Certified ROPS/FOPS open canopy
- Oscillation on power-end axle +/-10°

Options:

- Available with battery electric or diesel powertrain options
- Enclosed cabin with heat and/or AC
- Fire suppression, Check-Fire™ auto detection and handheld extinguisher
- Vehicle monitoring and telemetry system
- Automatic lubrication

Benefits:

- Significant water capacity and nozzle placement to ensure maximum dust suppression effectiveness
- Long life power train using industry-proven components
- Clean-burning, fuel-efficient engine minimizes harmful emissions
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points
- Superior traction due to four-wheel drive and Powershift transmission

Applications:

- Helps to create a dust-free environment underground
- Aids in cooling the mine environment by reducing heat generated by equipment and geological factors

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant

CS3 & CS5* Cassette Truck



Features:

- Heavy duty deck with multiple configuration options
- Automatic Brake Application (ABA) with manual reset
- Heavy-duty plate construction with modular tear-down capability
- Certified ROPS/FOPS open canopy
- 15,000 kg (33,000 lbs) maximum weight for Dana 113 axle

Benefits:

- Designed for full utilization, it continuously adjusts configurations, reducing fleet size and lowering capital investments.
- Long-life power train using industry proven components
- Low cost, dependable mine supply vehicle
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant

Options:

- Available with battery electric or diesel powertrain options
- Enclosed cabin with heat and/or AC
- Fire suppression, Check-Fire™ auto detection and handheld extinguisher
- Vehicle monitoring and telemetry system
- Emergency steering system

Configurations:

- ANFO Charger Cassette
- Dump Box Cassette
- Emulsion Loading Deck Cassette
- Flat Deck Cassette
- Fuel Lube Cassette
- Fuel Tanker Cassette
- Lift Hook/Bin (RORO) Cassette
- Emulsion Loading Deck Cassette
- Personnel Carrier Cassette
- Petrotac Sprayer Cassette
- Man Basket Cassette
- Mechanics Cassette
- Scissor Lift Cassette
- Transmixer Cassette
- Water Sprayer Cassette
- Crane Cassette

PC2 , PC3 & PC5* Personnel Carrier



Features:

- Available in 14-22 passenger configurations
- Heavy-duty frame
- Automatic Brake Application (ABA) with manual reset
- Certified ROPS/FOPS open canopy
- Suspension on rear compartment/frame

Benefits:

- Fast, efficient, and safe personnel transportation system
- Secure, comfortable ride from standard chassis suspension
- Efficient maintenance with electronic engine diagnostics and accessible fuel fill ports/grease points
- Four-wheel drive articulated carrier and powershift Transmission for superior traction

Options:

- Available with battery electric or diesel powertrain options
- Enclosed cabin with heat and/or AC
- Vehicle monitoring and telemetry system
- Fire suppression, Check-Fire™ auto detection and handheld extinguisher
- Automatic lubrication

Applications:

- Trackless mines where large crews travel long distances to work places from shaft stations
- Surface to multi-level destinations via mine ramp systems

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant

FL2 , FL3, & FL5* Fuel Lube Truck



Features:

- Up to 6,000 L (1,500 US gal) carrying capacity of diesel fuel, oils, grease and lubricants
- Heavy-duty frame
- Automatic Brake Application (ABA) with manual reset
- Certified ROPS/FOPS open canopy
- Oscillation on power-end axle +/-10°
- Insulation blankets on exposed components

Benefits:

- Self-loading/unloading capability
- Long life power train using industry proven components
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points
- Superior traction due to four wheel drive and Powershift transmission
- Low cost, dependable mine supply vehicle

Options:

- Available with battery electric or diesel powertrain options
- Enclosed cabin with heat and/or AC
- Vehicle monitoring and telemetry system
- Fire suppression, Check-Fire™ auto detection and handheld extinguisher
- Automatic lubrication

Applications:

- Flexibility and maneuverability allow vehicle to service fueling stations or deliver direct to remotely located vehicles
- Transportation between surface and underground levels via internal ramp network

* 5-series model available as a battery electric vehicle only

** Configurations may change based on the model variant



WHEN YOU BUY A MACLEAN MINING VEHICLE, YOU ARE FAMILY.

We care that our products and technologies enhance life above ground and below. Whether it's increased safety and productivity, or quieter, more ergonomic, zero emissions operations - our products make a real difference in the world. We back this up with a global branch infrastructure and technical support, field mechanics, and trainers. The result: increased machine productivity and operator safety and a lower Total Cost of Machine Ownership (TCO) for you.

To learn more, reach us at: info@macleanengineering.com

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