



# Ground Support & Tunneling Solutions

**Bolters | Scaler | Boom Lift | Shotcrete Sprayers | Mobile Concrete Mixers**

OUR COMMITMENT TO MINING SAFETY AND PRODUCTIVITY RUNS DEEP.

CANADA | MEXICO | PERU | SOUTH AFRICA | AUSTRALIA

[macleanengineering.com](http://macleanengineering.com)

 **MacLean**  
Performance. Reliability. Innovation.





## Features:

- Self-propelled, heavy duty four-wheel drive articulated carrier
- Electric-hydraulic control system
- Remote Drive System
- Hydraulic positioning, rock drilling/bolting systems
- Multiple types of bolts can be installed (resin or cemented grout rebar, Split Set® and Swellex® bolts, mechanical anchor, friction bolts)
- Long hole drilling capability
- Proven heavy duty scissor lift mechanism
- 3000 lbs. (1360 kg) deck payload capacity
- Forward-shifting hydraulic deck
- Optional high-reach deck
- Optional face bolting package
- Optional resin injection
- Optional battery power – tramming and drilling/bolting
- Seven-foot deck configuration available
- Available auxiliary hydraulic pump for water sprayer system (ramp wash-down)

# 975 Omnia Bolter

## The next generation of MacLean ground support versatility, safety and productivity.

The 975 Omnia Bolter delivers a cutting-edge ground support solution for almost any application context. Gen-3 drill feeds with high-durability wear guides, a single-bolt bolt handler, and an increased 3,000 lb. deck payload can now be combined with a wide range of options that provide customers with the utmost flexibility to match the unit with their specific ground conditions and mining method.

## Benefits:

- Operating protocol prevents exposure to loose rock hazards
- Versatility of ground support installation – bolt type and length
- Quality of ground support installation – visual inspection of ground conditions
- Highly productive ground support installation – operator line of sight
- Physical effort and fatigue are minimized compared to traditional rock bolting methods
- Single-operator design
- High-capacity storage for a full shift of bolting supplies





# SSB–Small Section Bolter

## MacLean–quality ground support for the most challenging headings.

Based upon the highly successful MacLean Series 900 Scissor Bolter, the SSB Small Section Bolter is the ground support solution for smaller openings. The benefits of safety, productivity, versatility and quality of installation again combine to provide the ideal tool for the mining cycle and rehabilitation operations.

## Features:

- Self-propelled, heavy duty four-wheel drive articulated carrier
- Hydraulic positioning, rock drilling/bolting systems
- Electric-hydraulic control system
- On-board storage for bolting supplies
- Provides scaling deck at optimum height
- Remote Drive System
- Drilling and bolting functions controlled from a remote location
- Telescopic feed to fit single pass drilling in low clearance areas

## Benefits:

- Offers significant productivity savings (one man operation for bolting and meshing)
- Permits drilling and bolt insertion from a safe working environment
- Eliminates safety hazards of hand-held drilling
- Multiple types of ground support hardware can be installed without loss of productivity
- Sequential bolting ring set-ups can be made from the drilling and bolting platform
- Storage space for all material to complete a shift's work





# CB3-Cable Bolter

## Ease of rock reinforcement.

The MacLean CB3 is a one-stop, mechanized solution for cable bolt insertion and grouting. With the CB3, operators no longer have to endure the strain and fatigue of repetitively pushing cable lengths by hand – the integrated boom basket, cable feed mechanism, and grout pump design delivers productivity, safety and ergonomics for all hard rock cable bolting needs.

## Features:

- Self-propelled, heavy duty four-wheel drive articulated carrier
- Cable bolt, grout and tension – 3 key functions
- Heavy-duty boom to 5.8m (225”) reach at max. extension – this translates to 7m+ operator reach
- Multi-positional cable feeder head
- Hydraulically driven grout pump with dust control
- Bolting coverage: drift walls, back and face
- Pre-cut single cable or double cables
- Optional bulk cable functionality upgrade
- Ergonomically positioned grout pump & materials for operators

## Benefits:

- Eliminates repetitive strain and fatigue of pushing cable bolts by hand
- Can bolt, grout, and tension in drift walls, back and face with improved productivity
- Works in tandem with MacLean bolter that can drill long holes for reduced cycle time
- Material storage for all cable insertion, grouting and tensioning activities
- Electric power pack or Battery ( EV) power train options for zero emissions and reduced ventilation, heat, and noise





# UBM–Utility Bolter

## Taking ground support to new heights.

Designed to supplement our suite of ground support solutions, the UBM Utility Bolter delivers height and reach options on a wide range of ground support and services functions. Like the MacLean 900 Series and SSB Small Section bolters, the UBM is purpose built with safety and quality of installation in mind.

## Benefits:

- Permits drilling and bolt insertion from a safe working environment
- Man-basket platform enables correct scaling/barring practices to be carried out and facilitates mesh/screen placement
- Offers significant productivity savings (one-man operation for bolting and meshing)
- Eliminates safety hazards of hand-held drilling
- Multiple types of ground support hardware can be installed without loss of productivity
- Provides full coverage in varied heading conditions

## Features:

- Self-propelled, heavy duty four-wheel drive articulated carrier
- Hydraulic positioning, rock drilling/bolting systems common with existing Series 900 Scissor Bolters
- Electric/hydraulic portable control system
- Operating protocol prevents exposure to loose rock hazards
- Storage for bolting supplies on boom basket and on the carrier
- Drill pendant for drilling and bolting functions
- CSA rated ROPS & FOPS canopy or enclosed cabin for driver's position
- Ansul fire suppression and Checkfire fire detection
- Anti-slip dimple plate on all step surfaces and three-point contact on all climbing areas
- Remote engine start/stop from basket
- Control system on basket and driver's compartment





# RB3-Scaler

## Control your ground.

Efficient scaling of loose rock from mine walls, backs and faces is of prime importance for underground production safety and productivity. The MacLean mobile RB3 Scaler is the latest addition to the MacLean ground support fleet. Combining MacLean quality, ruggedness and performance with industry-leading ergonomics and all-round operator visibility, the RB3 Scaler is the unit for reliable ground control.

## Features:

- Self-propelled, heavy duty four-wheel drive articulated carrier
- Scaling from one set-up, max. scale height 7.5 m (295")
- 800 ft-lbs MB10 -Hydraulic rock scaler hammer
- ROPS/FOPS cab with AC, particularly designed for all round visibility
- Articulated heavy-duty boom and dual rotary actuators
- Optional pick attachment

## Benefits:

- Secure ground control with mechanised scaling
- Ergonomic ROPS/FOPS enclosed deluxe cab with all-round visibility provides utmost safety and faster scaling operation cycle
- Interchangeable from hydraulic rock breaker hammer to pick attachment for high quality scaling with a single unit
- Long reach articulated boom and dual rotary actuators help scale at safe and convenient angles
- Optional radio controls for remote operation





## Features:

- Self-propelled, heavy duty four-wheel drive articulated carrier
- Compliant EWP (Elevated Work Platform)
- 6m (19.5ft) deck height; 8m (26.5ft) working height
- Lifting capacity of 5 tons (10,000 lbs)
- Interchangeable baskets / decks
- Deck extends down to ground level for work in 1-3m height range
- +/-15 degree boom swing
- Four stabilizing jacks
- Wireless remote control for boom and basket functions
- Emergency lowering system

# LR3 Boom Lift

## A friend in high places.

The LR3 Boom Lift is engineered and purpose-designed to provide ultra-versatile, full-spectrum reach and heavy load capabilities in larger-heading mines. With an 8m working height, 10,000 lbs. of lifting capacity, and interchangeable baskets and attachments, the LR3 is ideally suited to a wide range of mine services installation as well as construction and maintenance applications.

## Benefits:

- 8m working height for high-reach applications, with wide range of motion that allows deck to descend to ground level for low-reach needs
- 10,000 lb. lifting capacity
- Compatibility with MacLean Mine-Mate™ Series attachments: Fan Handler, Pipe Handler, Cable Reel, and Cable Pusher
- Long-life powertrain using industry proven components
- Clean-burning, fuel-efficient engine minimizes harmful emissions
- Superior traction due to four-wheel drive and powershift transmission





## Features:

- SS3 and SS2 models available to suit heading size and application
- Up to 30 yds<sup>3</sup>/hr (23 m<sup>3</sup>/hr) spraying rate
- Diesel or electric spraying capability
- Self-sufficient air supply available
- Stabilizing / lift jacks
- Auxiliary support systems
- Clean, high-powered, electronically controlled engines
- Four-wheel drive, articulated steer carrier
- Canopy and enclosed cab option
- Adaptable for hand-held applications if required
- Auto-dosing shotcrete accelerator system

# SS2 & SS3–Shotcrete Sprayers

## Cementing your coverage.

The SS2 and SS3 Shotcrete Sprayers are rugged mechanized shotcrete spraying systems, developed specifically for underground support applications. The units are optimized to make use of the latest developments in wet shotcrete materials, accelerators, and spraying processes for reduced airborne particulates while ensuring high quality performance.

## Benefits:

- Operator friendly spraying controls provide flexibility and high productivity
- Reduced airborne dust compared to dry spraying method
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points
- Carrier complies with current underground specifications for mobile equipment operating on steep inclines





## Features:

- TM3, TM2, and AG3 models available to suit heading size and application
- Up to 7.8 cubic yards (6 m<sup>3</sup>) concrete payload
- Low-profile drum
- Drum tilt with 19" (0.5 m) vertical travel
- AG3 model has true mixing fins to enable conversion of dry-mix to wet or for proper mixing of fibers, pozzolans or chemicals
- Stabilizing / lift jacks
- Heavy duty frame construction
- Auxiliary support systems
- Clean, high-powered, electronically controlled engines
- Reliable, proven powertrain components
- Four-wheel drive articulated carrier
- Canopy or enclosed cab option

## TM2, TM3 & AG3 — Mobile Concrete Mixers

### Concrete results.

The use of mobile concrete mixers for sprayed concrete in underground mines and tunnels requires reliable equipment to ensure the final product is of high quality and is applied in an efficient manner. The Mine-Mate™ TM2 & TM3 Transmixers are an integral part of the wet shotcrete process, providing high capacity, high speed transport of shotcrete/concrete in a fit-for-purpose package, while the AG3 is the choice for site-added materials.

### Benefits:

- Reverse drum rotation allows for discharge without tilting the drum
- External hydraulic actuator is operator friendly and reduces damage to door opening mechanism
- Large oval charging port provides operator flexibility and convenience with setups
- On AG3 model, a dry load hopper is mounted at the rear of the drum
- Axles and tires are sized for extreme load conditions
- Low cost, dependable mine supply vehicle





# MacLean Service and Support

## 360 – a number you can rely on.

When we say we've got your back, we mean it. Our MacLean 360 promise ensures you are supported when and where you need it.

MacLean parts support is available worldwide. Our International Distribution Centre hosts \$75 million in parts inventory, with a 85% shipped rate within 48 hours. Genuine MacLean parts and engineered aftermarket kits ensure OEM quality to maximize uptime and machine life.



*“Our 360 Promise provides peace of mind support to maximize your uptime.”*



# We've got your back.



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To learn about the  
**MacLean 360 Promise**  
Customer Support  
Program, visit  
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