



## BT-3 Boom Truck

Today's fast track mining methods require the timely supply of materials and equipment to widespread underground work places. The Mine-Mate™ BT-3 Boom Truck provides a reliable, high capacity, high speed system to meet this challenge.

### Features

- Up to 32,000 lbs (14,500 kg) payload
- Crane options to suit application
- Two stabilizing jacks
- Heavy duty frame construction
- Bulk handling options
- Clean high powered, electronically controlled engines
- Reliable, proven power train components
- Four wheel drive, articulated steer carrier
- Canopy and enclosed cab option

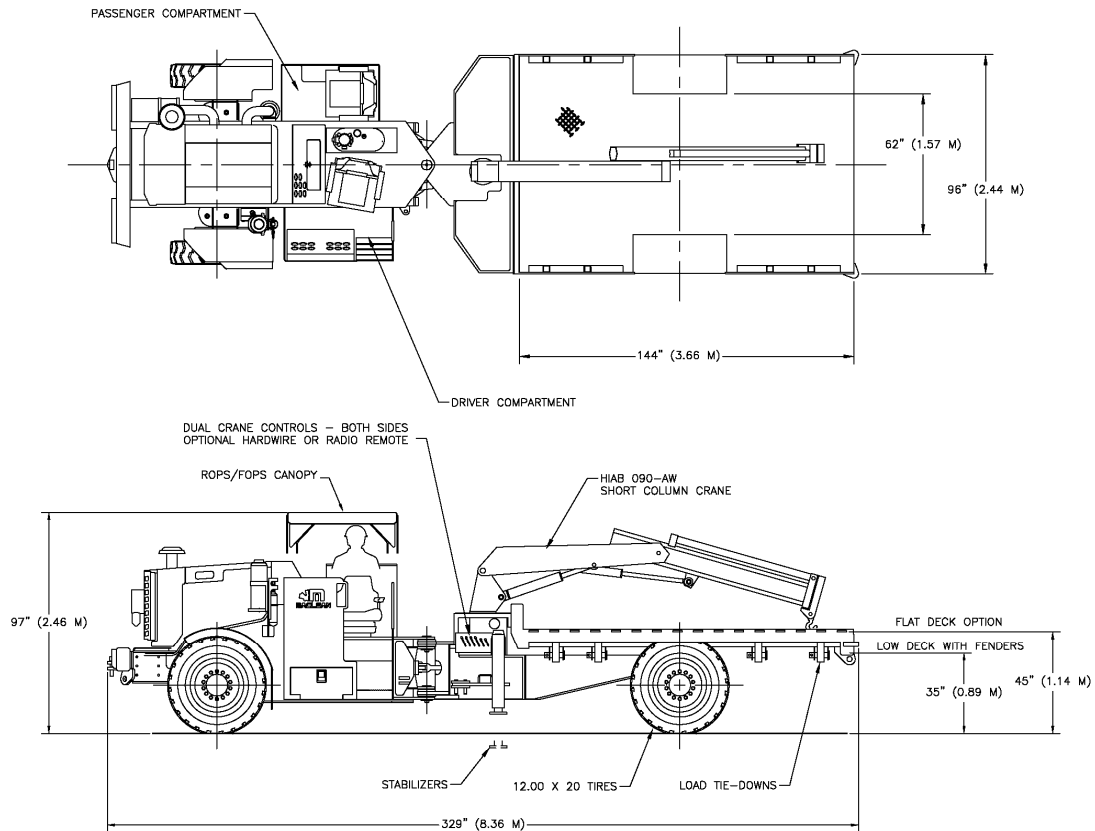
### Benefits

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

### Applications

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

# Naclean Nine-Mate



Shown with optional equipment included

## Weights and Dimensions

Empty vehicle weight – 30,000 lbs (13,600 kg)  
 Width- 96" (2.44 m)  
 Length – 329" (8.36 m)  
 Trimming height – 97" (2.46 m)

+/- 40 degrees steering angle  
 Inside turning radius – 227" (5.77 m)  
 Outside turning radius – 337" (8.56 m)

## Speed Range

Mercedes / Clark / New Holland Power Train

- 1<sup>st</sup> gear on flat – 2.3 mph (3.6 km/h)
- 2<sup>nd</sup> gear on flat – 4.8 mph (7.7 km/h)
- 3<sup>rd</sup> gear on flat – 8.3 mph (13.3 km/h)

Caterpillar Power train

- 1<sup>st</sup> gear on flat – 2.8 mph (4.5 km/h)
- 2<sup>nd</sup> gear on flat – 4.8 mph (7.7 km/h)
- 3<sup>rd</sup> gear on flat – 8.7 mph (14.0 km/h)

# Maclean Mine-Mate



## **Power End Standard Equipment**

Mercedes 904 liquid cooled diesel engine;

- Rated 147 hp (110 kW) at 2300 rpm – MSHA certified
- 4 cylinder – 4 stroke – Electronically controlled
- Turbo charged / Air to air charge cooled
- Mesabi radiator and cooling package
- 40 US gal (150 L) diesel tank

Dana Clark 32000 series powershift transmission;

- 3 speeds forward and reverse
- Electric shift control

New Holland D65I axles;

- Inboard planetary gears
- No-spin differential on engine side
- Standard differential on boom side
- Mico SAHR failsafe brake actuators
- Internal wet disk brakes
- +/- 10 degrees oscillation on power end axle
- Fixed mounting on application end axle

Brake system;

- Independent front/rear hydraulically operated service brakes
- Spring applied, hydraulic released emergency/park brakes
- Automatic Brake Application (ABA) with manual reset

Wheels and Tires;

- 12.00 x 20 tire size
- 20 ply pneumatic, lugged thread design

Driver and passenger compartments;

- Side entry away from articulation joint
- Driver's position – Center seated facing outward
- Passenger position – Side seated facing forward
- Deluxe suspension seats with seat belts for driver and passenger
- Stick steering controls
- Anti-slip dimple plate on all step surfaces

Frames;

- Heavy duty plate construction with modular tear down capability
- 40 degrees steering angle with dual steering cylinders
- Grouped grease fittings for articulation joint, steering pins and oscillating axle
- Heavy duty front and rear bumpers with towing capability
- Articulation lock bar
- Wheel chock holders

Hydraulic system;

- Closed center hydraulic circuit
- 30 gpm (110 L/min) piston pump
- 3000 psi (200 bar) system pressure
- 25 US gal (95 L) hydraulic tank
- 10 micron return filter

Electrical system;

- 24 Volt with master disconnect with lock out feature
- 95 amp / 24 volt alternator
- 800 CCA batteries
- 500 amp fuse starter protection
- Re-settable circuit breakers
- 6 headlights forward and 4 reverse
- Back-up alarm
- Strobe light
- Stainless steel enclosures

Exhaust system;

- Purifier and muffler assembly
- Insulation blankets on exposed components
- Emission test port

# Maclean Mine-Mate



## **Application End Standard Equipment**

Hiab 090AW Short column crane;

- 54,500 ft-lbs (7.5 t.m) rating
- 2370 lbs (1050 kg) lift at 23 ft (7 m) max. reach
- 5000 lbs (2250 kg) max lifting capacity
- Dual crane controls – Both sides
- Stabilizer jacks – Both sides
- Guard for crane base and controls

8 ft x 12 ft (2.44 m x 3.66 m) heavy duty deck;

- 22,000 lbs (10,000 kg) deck capacity
- Low deck with 35" (0.89 m) deck height and 62" (1.57 m) between wheel wells
- 24" (0.61 m) headboard / crane protector
- 4 load tie-downs

## **Optional Equipment**

Mercedes 906 engine upgrade;

- Rated 201 hp (150 kW) at 2300 rpm – MSHA certified
- 6 cylinder – 4 stroke – Electronically controlled

Fire suppression;

- Checkfire system
- Hand held extinguisher

Caterpillar power train components;

- Cat C6.6 rated 156 hp (116 kW) or 213 hp (158 kW) at 2300 rpm
- 6 cylinder – 4 stroke – Electronically controlled
- Cat 535C powershift transmission
- Cat 938G drive axles
- Payload increase to 26,000 lbs (11,800 kg)

Auto lube system

Choice of tires;

- Pneumatics, solids and filled
- Aircraft retreads

John Deere 1200/1400 series axles;

- Payload increase to 32,000 lbs (14,500 kg)

Flat deck configuration - no fenders

Hard wired or radio remote for crane controls

Brake inter-locking for stabilizer jacks

Exhaust blankets and shielding

Deck side panels and tailgate

Certified ROPS & FOPS open canopy

Tool box(s)

Certified ROPS & FOPS enclosed cabin;

- Heating and AC systems
- Pressurized air and sound suppression
- Windshield wiper and washer systems

Pallet lifter / forks

Additional options available upon request

## **Manuals and Warranty**

Parts, Operators and Maintenance manuals

- 3 sets of hardcopies
- "Catbase" or "Link One" electronic parts books
- French and Spanish parts manuals available

MAC-10 Warranty

- 1 year standard warranty
- Extended to 2 years on power train
- Extended to 7 years on frame

\*The manufacturer reserves the right to change the specifications or design of this machine at any time without notification.