

Maclean Mine-Mate



FH-3 Fan Handler

Installing ventilation fans, vent tubing and heavy wall pipes can be time consuming and dangers if proper equipment and procedures are not applied. The Mine-Mate™ FH-3 Fan Handler is a versatile tool that is both productive and reduces the risks of injuries. The heavy duty multi-tasking boom and attachments are specifically designed for installing mine services and can also perform the general duties of a Boom Truck.

Features

- Up to 30,000 lbs (13,600 kg) payload
- Heavy duty, compact four section boom
- Multi axis load cradle and manipulator
- Four stabilizing jacks/outriggers
- Heavy duty frame construction
- Quick disconnect attachments
- Clean high powered, electronically controlled engines
- Reliable, proven power train components
- Four wheel drive, articulated steer carrier
- Canopy and enclosed cab option

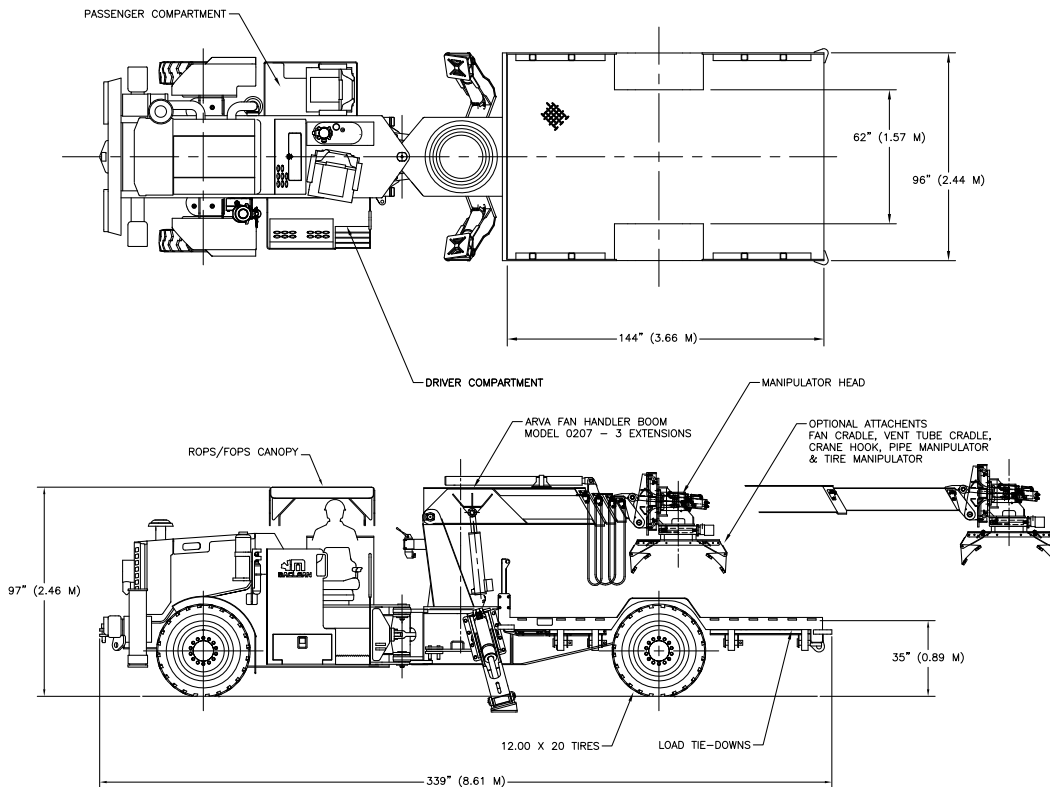
Benefits

- Purpose built tool reduces risks of injuries
- Multi-tasking capability reduces the number of support vehicles required
- 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

- Specialized attachments include a fan cradle, vent tube cradle, pipe manipulator, tire manipulator and a swivel hook.
- Unit can be used for general material handling and delivery as well as installing mine services.

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Shown with optional equipment included

Weights and Dimensions

Empty vehicle weight – 32,000 lbs (14,500 kg)
 Width- 96" (2.44 m)
 Length – 339" (8.61 m)
 Traming height – 102" (2.59 m)

+/- 40 degrees steering angle
 Inside turning radius – 237" (6.02 m)
 Outside turning radius – 347" (8.81 m)

Speed Range

Mercedes / Clark / New Holland Power Train

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

Caterpillar Power train

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

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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 (SAHR) 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

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Application End Standard Equipment

ARVA Fan Handler Boom;

- 110,000 ft-lbs (15.2 t.m) rating
- 3 hydraulic extensions for 18 ft (5.5 m) max. reach
- Multi-axis attachment manipulator
- Hard wire (tethered) primary controls
- Manual back-up controls
- Stabilizer jacks at front and outriggers on rear

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

- 20,000 lbs (9,000 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

Exhaust blankets and shielding

Auto lube system

Choice of tires

- Pneumatics, solids and filled
- Aircraft retreads

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 24,000 lbs (10,900 kg)

Attachments;

- Fan cradle – up to 4,000 lbs (1,800 kg)
- Vent tube cradle – up to 72" (1.8 m) dia
- Pipe manipulator – up to 12" (300 mm) dia
- Tire manipulator – up to 2,500 lbs (1,100 kg)
- Swivel hook

John Deere 1200/1400 series axles;

- Payload increase to 30,000 lbs (13,600 kg)

Radio remote controls

Brake inter-locking for stabilizer jacks

Certified ROPS & FOPS open canopy

Certified ROPS & FOPS enclosed cabin;

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

Deck side panels and tailgate

Tool box(s)

Fire suppression, Checkfire and hand held extinguisher

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.