

MINEMASTER®

We build MINEMASTER products in several standard configurations to suit a variety of applications. We also design and build custom units based on our customers unique needs and requirements. Browse below to see our full lineup of standard equipment.

+ FORKLIFTS

- MM430
- MM530
- MM8000

+ UTILITY VEHICLES

- Torquematic
- MM430 Utility
- MineTractor T4

+ PERSONNEL CARRIERS

- RTV Series
- Commander Series

+ SHOTCRETE SPRAY ARMS

- MM4502
- MS20

+ OTHER MINE EQUIPMENT

- Telehandlers
- Excavator
- Other

+ ELECTRIC EQUIPMENT

- MM530 EV
- MM1140 EV
- Commander EV

MINEMASTER®

MM430 Forklift



Specifications

ENGINE	– Liquid cooled, diesel powered	GROUND CLEARANCE	– Loader unit: 10.5 in. – Loader/Backhoe unit: 10 in. – Forklift Mast unit: 9.3 in. 270mm (10.6 in)
MAKE/MODEL	– Kubota D1803-CR-TIE4-WL5	LOADER	– Operating load: 2298 lb. – Tipping load (SAE): 4,596 lb. – Breakout force: 5215 lb. – Max hinge pin height: 86 in. – Max dump height: 105.7 in. – Counterweight: R430CW
KW(HP SAE GROSS) @ RPM	– 35.5 (47.6) @ 2600 rpm	PALLET FORKS	– Lift height: 110 in. – Capacity: 1504 lb. – Counterweight with load backrest: R520CW
CYLINDERS	– 3	FORKLIFT MAST	– Full free lift – Lift height: 107.5 in. – Retracted height: 79 in. – Forks-folding 2 1/2 x 5 x 40 in. – Forward tilt: 30 ° – Backward tilt: 20 ° – Capacity: 5,500 lb. @ 24 in. LC – Counterweight: R430CW
ALTERNATOR	– 80 amp	BACKHOE	– Side shift type with vertical stabilizers – Max digging depth: 108 in. – Bucket capacity: 2.08 cu.ft. – Bucket digging force: 4,100 lb. – Side shift: 19.5 in. (each way)
RATING	– 47.6 hp @ 2600 rpm	ELECTRICAL	– Fully upgraded wiring package – Heavy-duty stainless steel dash – LED work lights front & rear, 2 Backup lights – Heavy-duty switches – 12 V battery
AXLES	– Limited slip, differential front axle – Inboard planetary drives		
TRANSMISSION	– Automatic, hydrostatic, load sensing – High/low, forward/reverse – Electro-hydraulic forward & reverse, shuttle shift		
STEERING	– Articulated center pivot – Angle of articulation, each way 40° – Frame oscillation, each way 8°		
DRIVE SYSTEM	– 4 Wheel Drive		
BRAKES (PARK/EMERGENCY)	– Wet driveline disc on front & rear differential input, – S.A.H.R. dash activated or automatic with loss of hydraulic or engine stall		
BRAKES (SERVICE)	– Wet type friction plate, outboard of differential case, in rear axle		
TIRES	– 13/70-18 24 Ply Aircraft		
LUBRICATION	– 10 point inline auto lubrication system		

Specifications subject to change without prior notice

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Sudbury, Ontario
Canada P3A 4S9
tel 705 566 5438
fax 705 566 5422

TIMMINS
2200 Riverside Dr. RR2
Timmins, ON
Canada P4R 0A1
tel 705 268 5438
fax 705 268 3382

NORTH BAY
127 Pinewood Park Drive
North Bay, ON
Canada P1B 8Z4
tel 705 840 5438
fax 705 474 0717

MM430 Forklift

The MINEMASTER® 430 is a state-of-the-art, multipurpose vehicle designed for the rigors of the underground environment. The heavy-duty articulating frame allows for exceptional maneuverability in tight spaces and supports up to 6,000 lbs. with the front forklift attachment. The MM430 can be equipped with a wide variety of attachments, allowing one unit to handle multiple tasks with ease while reducing overall equipment cost.

- STRONG POINTS**
- + Fully upgraded electrical system
 - + Heavy-duty frame
 - + Stainless steel dash and heavy-duty switches
 - + Walk-through operator compartment
 - + Inching pedal
 - + High ground clearance
 - + Protective operator guards
 - + Non slip 3-point access on all entry points
 - + Safety -interlock tarning system

Front Options

LOADER ASSEMBLY

- Bucket or pallet forks

FORKLIFT MAST (AS SHOWN)

- Standard or flip-up forks
- 6,000 lb. capacity

MAN BASKET

ARTICULATING FRAME

- 40° of articulation
- 8° of oscillation

Operator Compartment

OPERATOR GUARD (AS SHOWN)

ISO ROPS/FOPS

CAB

CANOPY

Rear Options

BACKHOE (AS SHOWN)

- Standard, rotating or side shifting,
- Bucket, scraper blade or hydraulic breaker

SHOTCRETER

MAN BASKET



MINEMASTER®

MM530 Forklift



Specifications

ENGINE	- Liquid cooled, diesel powered
MAKE/MODEL	- Kubota/ V2607-CR-E4
CYLINDERS	- 4
HORSEPOWER	- 38 kW (51.0 hp) @ 2400 rpm
FUEL	- Diesel
ALTERNATOR	- 80 amp
CAPACITY	- 70 L (18.5 U.S. gals, 15.4 Imp. gals)
AXLES	- Differential Lock (Front & Rear)
TRANSMISSION	- Hydrostatic, Load Sensing - high/low, forward/reverse
STEERING	- Articulated center pivot - Angle of articulation (each direction) = 40 - Frame oscillation (each direction)= 8
DRIVE SYSTEM	- Permanent 4WD
BRAKES (Park/Emergency)	- Spring applied hydraulic released enclosed wet disc brake - S.A.H.R dash activated and automatic with loss of hydraulic or engine power

BRAKES (Service)	- Enclosed, Wet disc
TIRES	- 405/70R18
GROUND CLEARANCE	- Loader Unit= 12.8" (350mm) - Forklift Unit= 11" (280mm)
LOADER (Depending on Configuration)	- Operating load (SAE) = 3229 - 3500 lbs (1465 - 1587 kg) - Tipping load (straight) = 7606 - 8212 lbs (3450 - 3725 kg) - Tipping load (full turn) = 6459 - 7000 lbs (2930 - 3175 kg) - Breakout force = 10415 lbs (46.3 kN) - Max hinge pin height = 10.8" (3250mm) - Max dump height = 8'3" (2525mm)
PALLET FORKS	- Operating load (SAE) = 2496 - 2695 lbs (1132 - 1222 kg) - Tipping load (straight) = 5842 - 6305 lbs (2650 - 2860 kg) - Tipping load (full turn) = 4993 - 5390 lbs (2265-2445kg) - Height of forks @ max. reach = 4'6" (1380mm) - Height of forks @ max. height = 10'0" (3045mm)
FORKLIFT MAST	- Full free lift - Ligt height = 8'9" (2680mm) - Retracted height = 79" - Forward tilt= 25 degrees - Backward tilt= 13 degrees - Capacity = 6000 lbs - Standard Folding forks - Optional Fork Positioner
ELECTRICAL	- Standard Wiring Integration - Optional overhead LED lights, Beacons - Heavy0duty switches - 12V Battery - Optional fully upgraded wiring package

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Timmins, ON
Canada P4R 0A1
tel 705 268 5438
fax 705 268 3382

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127 Pinewood Park Drive
North Bay, ON
Canada P1B 8Z4
tel 705 840 5438
fax 705 474 0717

MM530 Series

The MineMaster 530 Series is a state-of-the-art, multi-purpose vehicle designed for the rigors of the underground environment. heavy-duty articulating frame allows for exceptional maneuverability in tight spaces and can support up to 6,000 lbs. with the front forklift attachment, allowing one unit to handle multiple tasks with ease while reducing overall equipment cost.

- STRONG POINTS
- + MineMaster Harness and lighting system
 - + Heavy Duty Frame
 - + High ground clearance (11" - 13.8")
 - + Inching pedal
 - + Protective operator guard
 - + Non slip 3-point access on all entry points
 - + Safety starting system
 - + Multiple attachments available

Front Options

LOADER ASSEMBLY

- Bucket or pallet forks

FORKLIFT MAST (AS SHOWN)

- Standard or flip-up forks
- 6,000 lb. capacity

MAN BASKET

ARTICULATING FRAME

- 40° of Articulation
- 8° of Oscillation
- Oscillation stops for enhanced stability

Operator Compartment

STANDARD ROPS

(SAE J2194 & OSHA 1928)
(SHOWN BELOW)

OPTIONAL ROPS/FOPS

(CSA & ISO LEVEL 2 OPEN ROPS)

OPTIONAL ENCLOSED CAB

OPTIONAL STEEL CANOPY



MM8000 Forklift



ENGINE:	– Liquid Cooled, Diesel Powered
ENGINE MAKE/MODEL:	– Kohler KDI 2504 TCR- Tier 4 Final
ENGINE OUTPUT:	– 55.2KW (74HP) @ 2600 RPM
CYLINDERS	– 4
PEAK TORQUE	- 300N-m (221 ft-LBS) at 1500 RPM
MAXIMUM TRAVEL SPEED:	- 15 (24) MPH (KM/H)
AXLES:	– High Load Capacity Drive and Steering Axles, Limited Slip
TRANSMISSION:	– Four Speed Power Reversing Synchroshut- tle Transmission with torque converter and integral parking brake – 4-Speed fully automatic transmission standard on 4WD model
STEERING	– Load Sense Power Steering
DRIVE SYSTEM	– 4 Wheel Drive

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NORTH BAY
127 Pinewood Park Drive
North Bay, ON
Canada P1B 8Z4
tel 705 840 5438
fax 705 474 0717

MM8000 Series

The MineMaster MM8000 is a heavy-lift, low-profile utility forklift for underground applications. With an 8,000 lbs capacity and low profile design the MM8000 is well suited for handling large, heavy loads for surface or underground applications.

- STRONG POINTS
- + CANMET Certified Diesel Engine
 - + Fully Enclosed SAHR wet disc emergency/park brake
 - + Non Slip 3-Point access on all entry points
 - + Safety Starting System

Standard Equipment

- Suspension Seat with Seat belt
- 2 Front/ 2 Rear Halogen Worklights (LED Optional)
- LED Brake and Amber Flashing Lights
- Neutral Gear Required for Starting (Safety Start)
- Tilt Steering Wheel
- Horn and Backup Alarm
- Wheel Chock Holder
- + Fire Extinguisher and Mount Bracket

Front Options

- FORKLIFT MAST (AS SHOWN)
- Standard or flip-up forks
- MAN BASKET



MINEMASTER®

Torquematic GEN III

Specifications

ENGINE	– Diesel powered
MAKE/MODEL	– Kubota / V3800DI-T-E2B
KW(HP SAE GROSS) @ RPM	– 74kW (99.2hp)
CERTIFIED	– TIER 3 Stage IIIA, CANMET #1225
AXLES	- Front: International Transmission LTD. SD55/ST - Rear: international Transmission LTD. PD70
TRANSMISSION	- International Transmission LTD. P5760-Powershift, full-time 4WD
ELECTRICAL	– Alternator: ACDelco singlewire self exciting, 105 amp, 12VDC – Starter: NipponDenso, 3.0kW with mechanical over-crank protection – Wiring system: discreet connection, NEMA sealed enclosures, self-extinguishing cable – Front & rear halogen work lights – Rear LED tail lights – Rear reverse acrtivated travel alarm – Independent warning strobe light
BRAKES (SERVICE)	– Full split system, dual accumulators and tandem dual gain power pedal, pressure monitored service brake
BRAKES (EMERGENCY)	– Internal wet disc brakes
TIRES	– Front: Bridgetstone 285/70R19.5 radial tubeless – Rear: Goodyear 16.00R20: AT2A radial tubeless
LOAD SENSING POWER STEERING	– Controller: Sauer-Danfoss Steering – Steering: Ackerman type with double acting cylinder and track rod interconnect

Specifications subject to change without prior notice

HYDRAULICS	– Salami tandem fixed displacement gear pump
LOADER (SELF-LEVELING)	– Lift capacity: 4,400 lbs. – Lift height: 131 in. (at forks)
BACKHOE	– Side shift: 19.5 in. per side: vertical stabilizers – Max digging depth: 9ft – Bucket width: 17.7 in. – Bucket digging force: 4,100 lbs.
JIB CRANE	– PC2300-2 section hyd. boom extension – Max lift: 9 ft 3 in. @ 1,500 lbs.
REAR FORKLIFT 35D SERIES	– Capacity: 3,500 lbs @ 24 in. LC – Total lift height: 75.75 in. – Total mast height: 68 in.
REAR FORKLIFT 60D SERIES	– Capacity: 6,000 lbs. @ 24 in. LC – Total lift height 144 in. – Total mast height: 79 in.
FRONT OR REAR SCISSOR LIFT	– Double scissor with 30x72 in. leveling platform – Capacity: 800 lbs. – Stowed height (platform) 44.6 in. – Trimming height (railing): 91.25 in. – Standard: counter balance valving, control valve in platform & machine, emergency egress ladder
PERSONNEL CARRIER	– Capacity: 2-9 persons
MAN BASKET	– Front or rear configuration
CABLE PUSHER	– Hydraulic cable reel with cable pusher system
REAR SHOTCRETE BOOM	– PK4501B spray boom wet/semi-wet/dry – Dry max. spray height: 36.5 in. – Continuous horizontal spraying: 10 ft
SPEED PERFORMANCE (FLAT RAMP)	– 1st gear: 8.5km/hr – 2nd gear: 11km/hr – 3rd gear: 17km/hr
AVAILABLE OPTIONS	– Certified ROPS/FOPS structure – ANSUL fire suppression system



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Torquematic GEN III

The MineMaster® Torquematic GEN III is a robust and reliable all-in-one mining vehicle. The modular design is the result of over 5 years of continuous research and development. The Torquematic can be equipped with a wide variety of attachments, allowing one unit to handle multiple tasks with ease while reducing overall equipment cost. The heavy-duty, solid steel construction is capable of lifting 6,000 lbs with the forklift attachment and 1,500 lbs with the jib crane attachment. The Torquematic is the go-to-machine for a mid-size, underground, multi-purpose vehicle.

- STRONG POINTS
- + CANMET certified diesel engines
 - + Fully upgraded electrical system
 - + Heavy-duty frame
 - + Heavy-duty skid plate for protection
 - + Walk-through operator compartment
 - + High ground clearance
 - + Protective operator guards
 - + Non slip 3-point access on all entry points
 - + Operator and passenger suspension seating

Operator Compartment

- OSHA compliant

- ROLL-OVER PROTECTION
STRUCTURE (ROPS/FOPS)
(AS SHOWN)
- CANOPY

Rear Options

- PERSONNEL CARRIER (AS SHOWN)
- 2-9 man capacity

- FORKLIFT MAST
- Standard forks or flip-up forks
 - 3,500 or 6,000 lb. capacity

- BACKHOE
- Standard or side-shifting bucket, or hydraulic breaker

- JIB CRANE
- 1,500 lb. capacity

- HYDRAULIC CABLE REEL
- Used with cable pusher

MAN BASKET

SCISSOR LIFT

Front Options

- LOADER ASSEMBLY (AS SHOWN)
- Bucket or pallet forks

- CABLE PUSHER ASSEMBLY
- Used in conjunction with hydraulic cable reel

MAN BASKET

SCISSOR LIFT

- ADDITIONAL STORAGE
- Front tool compartment
 - Rear tool compartment



MINEMASTER®

MM430

Utility Vehicle



Specifications

ENGINE	– Liquid cooled, diesel powered
MAKE/MODEL	– Kubota D1803-CR-TIE4-WL5
KW(HP SAE GROSS) @ RPM	– 35.5 (47.6) @ 2600 rpm
CYLINDERS	– 3
ALTERNATOR	- 80 amp
RATING	- 47.6 hp @ 2600 rpm
AXLES	– Limited slip, differential front axle – Inboard planetary drives
TRANSMISSION	– Automatic, hydrostatic, load sensing – High/low, forward/reverse – Electro-hydraulic forward & reverse, shuttle shift
STEERING	– Articulated center pivot – Angle of articulation, each way 40° – Frame oscillation, each way 8°
DRIVE SYSTEM	– 4 Wheel Drive
BRAKES (PARK/EMERGENCY)	– Wet driveline disc on front & rear differential input, – S.A.H.R. dash activated or automatic with loss of hydraulic or engine stall
BRAKES (SERVICE)	– Wet type friction plate, outboard of differential case, in rear axle
TIRES	– 13/70-18 24 Ply Aircraft
LUBRICATION	– 10 point inline auto lubrication system

GROUND CLEARANCE	– Loader unit: 10.5 in. – Loader/Backhoe unit: 10 in. – Forklift Mast unit: 9.3 in.
LOADER	– Operating load: 2298 lb. – Tipping load (SAE): 4,596 lb. – Breakout force: 5215 lb. – Max hinge pin height: 86 in. – Max dump height: 105.7 in. – Counterweight: R430CW
PALLET FORKS	– Lift height: 110 in. – Capacity: 1504 lb. – Counterweight with load backrest: R520CW
FORKLIFT MAST	– Full free lift – Lift height: 107.5 in. – Retracted height: 79 in. – Forks-folding 2 1/2 x 5 x 40 in. – Forward tilt: 30 ° – Backward tilt: 20 ° – Capacity: 5,500 lb. @ 24 in. LC – Counterweight: R430CW
BACKHOE	– Side shift type with vertical stabilizers – Max digging depth: 108 in. – Bucket capacity: 2.08 cu.ft. – Bucket digging force: 4,100 lb. – Side shift: 19.5 in. (each way)
ELECTRICAL	– Fully upgraded wiring package – Heavy-duty stainless steel dash – LED work lights front & rear, 2 Backup lights – Heavy-duty switches – 12 V battery

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MM430 Utility Vehicle

The MineMaster® MM430 Utility Vehicle is a state-of-the-art, multipurpose vehicle designed for the rigors of the underground environment. The heavy-duty articulating frame allows for exceptional maneuverability in tight spaces and supports up to 6,000 lbs. with the front forklift attachment. The MM430 can be equipped with a wide variety of attachments, allowing one unit to handle multiple tasks with ease while reducing overall equipment cost.

- STRONG POINTS**
- + Fully upgraded electrical system
 - + Heavy-duty frame
 - + Stainless steel dash and heavy-duty switches
 - + Walk-through operator compartment
 - + Inching pedal
 - + High ground clearance
 - + Protective operator guards
 - + Non slip 3-point access on all entry points
 - + Safety starting system

Operator Compartment

- OSHA compliant

ROLL-OVER PROTECTION
STRUCTURE (ROPS/FOPS)
(AS SHOWN)

CAB

CANOPY
OPERATOR GUARD

Rear Options

BACKHOE (AS SHOWN)

- Standard, rotating or side shifting,
- Bucket, scraper blade or hydraulic breaker

MAN BASKET

Front Options

LOADER ASSEMBLY (AS SHOWN)

- Bucket or pallet forks

FORKLIFT MAST

- Standard or flip-up forks
- 6,000 lb. capacity

MAN BASKET, SWEEPER,
SNOWBLOWERS,

- ARTICULATING FRAME
- 40° of articulation
 - 8° of oscillation



MINEMASTER®

MineTractor T4



Specifications

ENGINE	– Liquid Cooled, Diesel
ENGINE MAKE/MODEL	– Kohler KDI 2504 TCR- Tier 4 Final – Option Kubota V2203 Tier 3
ENGINE OUTPUT	– 55.2kW (74hp) @2600 RPM
MAXIMUM TRAVEL SPEED	– 15 mph (24 Km/h)
AXLES	- High Load Capacity Drive and Steering Axles - Limited Slip
TRANSMISSION	- Four Speed Power Reversing Synchroshuttle Transmission With Torque Converter and Integral Parking Brake - 4-Speed Fully Automatic Transmission with Standard on 4wd Model
STEERING	– Load Sense Power Steering
DRIVE SYSTEM	– 4 Wheel Drive
BRAKES	– Enclosed Multi Disc – Oil Immersed Service Brakes – AHR Enclosed Wet Disc Brakes – Emergency Park Brake
LUBRICATION	– Optional Auto Lube

OUTSIDE TURNING RADIUS	– 196” (4.98M)
VEHICLE MASS	– 1600 LBS
GRADEABILITY	– 25%
OVERALL HEIGHT	– 75”
OVERALL WIDTH	– 78”(1.91m)
OVERALL LENGTH	– 162”
WHEELBASE	– 93” (2.36m)
STANDARD EQUIPMENT	– Suspension Driver’s Seat – 4 Jumps Seats (Folding) – 1 Optional Rear Seat (Suspension) For Backhoe Operator – 2 Front/2 Rear Worklights – LED Rear Red Lights – Neutral Gear Interlock For Starting (Safety Start) – Tilt Steering Wheel – Horn and Backup Alarm – Wheel Chock Holder – Fire Extinguisher and Mount Bracket

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MineTractor T4

The MineMaster® MineTractor T4 is the all in one underground mining tractor and utility vehicle. The Minetractor MMT4 is cost effective and customizable with many different accessories and configuration options. With standard front and rear attachment points the MMT4 can be configured for a variety of underground jobs which reduces the number of mobile equipment units required for operations.

The MMT4 underground mining tractor can be configured with a rear backhoe, rear shotcrete spray arm, personnel carrier, jib crane, scissor lift and more.

The front attachment can be configured with a straight mast with up to 6000lbs capacity or a front-end loader. The front-end loader option features a standard skid steer quick coupler with built-in auxiliary hydraulics and standard front-end accessories are: pallet forks, bucket, manbasket, and more. A standard front-end loader coupling enables you to use any attachment from any manufacturer that supports the skid steer coupler.

- STRONG POINTS
- + Strong base with multiple configuration options
 - + Standard 6-place seating
 - + Multiple configuration options
 - + Optional ISO ROPS
 - + Heavy-duty electrical system
 - + Mine-spec lighting

Front Options

- + Forklift Mast (6000lbs capacity)
- + Front-end loader (5500lbs capacity)
- + Standard Skid Steer Coupler
- + Standard High Flow Hydraulics
- + Manbaskets

Rear Attachments

- + Man Carrier
- + Shotcrete Arm
- + Backhoe
- + Forklift mast
- + Scissor lift
- + Rear jib crane
- + Flat Deck

Features

- + Built with highly available components
- + Standard wheel chock and fire extinguisher location
- + SAHR multi-wet disc emergency disc brakes
- + Multi-wet service brakes
- + Proven transmission and powertrain
- + Standard front and rear attachments
- + Electric over hydraulic joystic
- + Remote control options



MINEMASTER®

MM1140

Series



Specifications

ENGINE	– Indirect injected, liquid cooled, 4 cycle
MAKE/MODEL	– Kubota / D1105-E3-UV
TYPE	– 3 cylinders, 4 cycle, OHV
HORSEPOWER	– 15.5 kW (24.8 hp)
ALTERNATOR	– 60 amp
CERTIFICATION	– CANMET #1228 (TIER 4)
FUEL	– DIESEL
CAPACITY	– 30 L (7.90 U.S. gals, 6.6 Imp. gals)
AXLES	– Front: Fully Independent Coilover (with Limited Slip) – Rear: Fully Independent HD Coilover (Pedal operated Locker)
TRANSMISSION	– Variable Hydrostatic (VHT-X) – Range: low, high
STEERING	– Hydraulic Power Steering
DRIVE SYSTEM	– Permanent 4WD
BRAKES (PARK/EMERGENCY)	– Transmission Enclosed, Hand Lever
BRAKES (SERVICE)	– Enclosed, Wet disc (Front & Rear)
TIRES	– 27x8.50R14LT (HD Rim & Tire)
SOUND LEVEL (OPERATOR)	– 85 dB (A)
PAYLOAD CAPACITY	– 590 kg (1,300 lb.) (Passenger & Cargo)

GROUND CLEARANCE	– Front: 285 mm (11.3 in.) – Rear: 240 mm (9.4 in.)
FRONT BUMPER	– Standard Tow Hooks – Standard Wheel Chock Holder – Optional Spare Tire Holder
LUBRICATION	– F/R A-Arm bushings – Driveshaft pillow block Bearings – Optional 16-point Auto-Lube
ELECTRICAL	– Standard Wiring Integration – Standard overhead LED lights, Beacons – Heavy-duty switches – 12V Battery – Optional fully upgraded wiring package
AVAILABLE CONFIGURATIONS	– Utility vehicle: 2- or 4-personnel capacity – Personnel carrier: up to 6-personnel cap. – Rear Carrier – Built-in tool boxes – Rear work platform – Full cab, canopy, ROPS, ROPS/FOPS
AVAILABLE ONBOARD EQUIPMENT	– Emergency Medical Service Kit (EMS) – Generator – Winch – Air compress

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Canada P4R 0A1
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fax 705 268 3382

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North Bay, ON
Canada P1B 8Z4
tel 705 840 5438
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MM1140 Series

The MineMaster MM1140 Series is a highly versatile and rugged machine that can be customized as a personnel, utility or service vehicle to meet the needs of many demanding underground environments. As a personnel vehicle, it can be configured as a 2- or a 4-personnel carrier. As a utility vehicle, it can be equipped with a rear carrier, built-in toolboxes, rear work platform or a rear hydraulic tilt bed. When operating as a service vehicle, it can be equipped with a winch, generator, and air compressors for servicing other equipment. The MM1140 Series can also be configured as an EMS vehicle. The rough terrain of the harsh underground environment is no match for the 1140 Series, which can be customized based on individual needs and requirements.

DESIGN IMPROVEMENTS

- + More Rugged Styling
- + Improved Ergonomics
- + Improved Comfort and Convenience
- + Excellent Ride and Terrain-ability
- + Improved Durability
- + Retains Workhorse Capabilities

STRONG POINTS

- + CANMET certified diesel engines
- + MineMaster harness and lighting system
- + Heavy-duty skid plates for protection
- + Walk-through operator compartment
- + High ground clearance (9"-11")
- + Non slip 3-point access on all entry points
- + Safety-interlock starting system

Operator Compartment

STANDARD ROPS

(SAE J2194 & OSHA 1928)
(SHOWN BELOW)

OPTIONAL ROPS/FOPS

(CSA & ISO LEVEL 2 OPEN ROPS)

OPTIONAL ENCLOSED CAB

OPTIONAL STEEL CANOPY

Rear Options

HYDRAULIC BED-LIFT (AS SHOWN)

- Expandable cargo bed operable in 2 or 4-seat configuration

PERSONNEL CARRIER

- Up to 2-personnel in cargo bed

REAR WORK PLATFORM

BUILT-IN TOOLBOXES

GENERATOR & AIR COMPRESSOR

EMERGENCY MEDICAL SERVICE KIT (EMS)



MM1140 EV Photo Shown



MINEMASTER®

Commander Series



Specifications

ENGINE	– Liquid cooled, diesel powered
MAKE/MODEL	– Kubota D1803-CR-TIE4-WL5
CERTIFIED	– TIER3 Stage IIIA, CANMET #1225, MSHA
POWER	– 121 hp / 130 hp
TRANSMISSION	– Dana 20000 Series – 3-speed manual selection
AXLES	– Front: Dana 211 – Rear: Dana 111
ELECTRICAL	– Class exclusive 24V electrical system operated by a proven CAN-BUS controller with a 12 in. TFT display
BRAKES (SERVICE)	– Enclosed four axle mounted service brakes applied by a heavy duty dual brake master cylinder – Certified to CAN/CSA - M424.3 - M90 braking test
BRAKES (EMERGENCY)	– Enclosed four axle mounted emergency/ park brakes (S.A.H.R.)
COOLING	– Hydraulic driven fan – Stacked charge air, radiator and transmission coolers with copper fins
TIRES	– Front Drive/Steer: Goodyear Duratrac LT315/75-16 – Rear Drive: Goodyear Duratrac LT315/75-16
SUSPENSION	– Maintenance free front & rear 4-link suspension system with coil over shocks
PAYLOAD CAPACITY	– Depending on configuration 1000–4500 lbs. (454–2041 kg)

MAX. SPEED (LOADED)	– Up 20% ramp: 16 km/hr – Down 20% ramp: 33 km/hr – Flat: 25 km/hr
PERSONNEL CAPACITY	– C2: 2 personnel – C5: 5 personnel – C9: 9 personnel – C11: 11 personnel
CAB CONFIGURATIONS	– Open cab – ROPS – ROPS/FOPS – Closed cab (available with heat and A/C)
STANDARD FEATURES	– Standard 12 in. display with rear back-up camera – Ergonomic controls, access and seating positions (drivers and all passengers) – Low step-in height (for both the cab and the rear carrier) – Front mining-style seats designed specifically for the special needs of today's underground miners
FEATURE OPTIONS	– Choice of two proven engines – Available in 2, 5, 9 and 11 personnel capacities – Available with bench seats and/or mining-style seats (C5, C9 and C11) – EMS (Ambulance) package* – Mechanic/Service truck option* – Aerial boom option* – Scissor lift option* – Crane truck option* – Explosives carrier option* * Available on C2 and C5 configurations

Specifications subject to change without prior notice

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SUDBURY
400 Hwy. 69 N. Box 2592
Sudbury, Ontario
Canada P3A 4S9
tel 705 566 5438
fax 705 566 5422

TIMMINS
2200 Riverside Dr. RR2
Timmins, ON
Canada P4R 0A1
tel 705 268 5438
fax 705 268 3382

NORTH BAY
127 Pinewood Park Drive
North Bay, ON
Canada P1B 8Z4
tel 705 840 5438
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Commander Series

The MINEMASTER® Commander Series is a new class of underground personnel carrier designed from years of research and customer input. The Commander offers a comfortable and controlled ride without sacrificing payload capacity. Combined with low maintenance requirements and ground level service, the Commander is in a class of its own.

- STRONG POINTS**
- + Fully upgraded electrical system
 - + Heavy-duty frame
 - + Stainless steel dash and heavy-duty switches
 - + Walk-through operator compartment
 - + Inching pedal
 - + High ground clearance
 - + Protective operator guards
 - + Non slip 3-point access on all entry points
 - + Safety -interlock tarding system

Operator Compartment

- OSHA compliant

ROLL-OVER PROTECTION STRUCTURE (ROPS/FOPS)
(AS SHOWN)

OPEN CAB

- CLOSED CAB
- Available with heat and A/C

Options

- PERSONNEL CARRIER
- 2, 5, 9, 11 personnel capacities
 - Bench or mining-style seats

EMS (AMBULANCE) TRUCK *

MECHANIC/SERVICE TRUCK *

ELECTRICAL TRUCK *

AERIAL BOOM *

SCISSOR LIFT *

CRA NE *

EXPLOSIVES CARRIER *

* AVAILABLE WITH C2 AND C5 CONFIGURATIONS

Engine Options

- CANMET MSHA certified

MERCEDES

- 121 hp

CUMMINS

- 130 hp



MINEMASTER®

MM4502

Shotcrete

Spray Arm



Specifications

SHOTCRETER SYSTEM MASS	– 2900 LBS	BOOM	– 3 stage telescopic boom – Cylinder guards over telescoping section – Boom reach: 25’ – Maximum spray height: 36’ 6”
CRADLE GROUND CLEARANCE	– 10 5/8”	NOZZLE	– Roll: 360° – Pivot: 360° – Nozzle oscillation in both clockwise and counterclockwise rotation
OVERALL HEIGHT	– Boom down: 81”	STANDARD EQUIPMENT	– 2” spray nozzle with 3” victaulic coupler – LED work lights (4 cradle/1 boom) – Comes with prop rod to support boom for maintenance – Foldable stand for operator controls – See through vinyl cover for hydraulic/electrical controls – Rubber flaps to protect cradle
OVERALL WIDTH	- Outriggers retracted: 63” - Outriggers extended: 120”	LUBRICATION	– Manual grease points on boom and cradle
FORM OIL SYSTEM	- Tank capacity: 52L - Spray wand and hose included - Uses vegetable oil for release of shotcrete from machine surfaces		
CRADLE	– Custom cradle for quick connection with MineMaster R520, MM430, and other utility equipment – Comes with fork pockets for ease of removal – Hydraulic outrigger cylinder travel: 17 7/8” – Mechanical quick connect: for MM430/ MM520 – Hydraulic quick connect included		

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127 Pinewood Park Drive
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Canada P1B 8Z4
tel 705 840 5438
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MM4502 Shotcrete Spray Arm

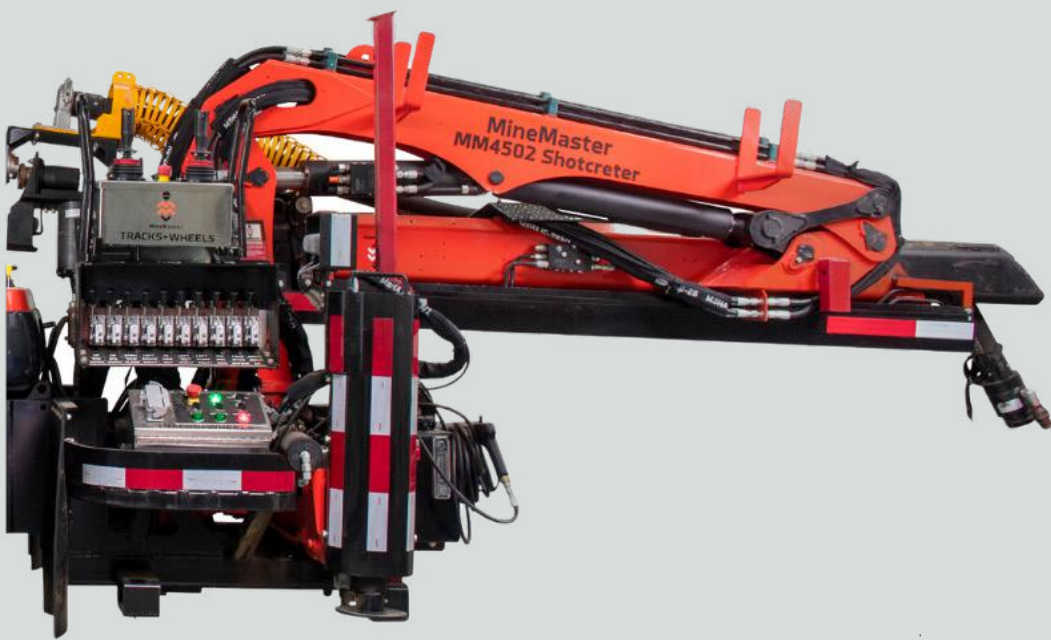
The MineMaster® MM4502 Shotcrete Spray Arm is the final delivery boom of choice for utility shotcrete operations in mines. The MM4502 mounts onto any MineMaster 520 or MM430 and will moun on most other MineMaster vehicles. The MM4502 can also be mounted on other equipment.

The MM4502 adds significant utility to your MineMaster articulating forklift while still retaining the 6000lbs forklift capacity.

- STRONG POINTS
- + Large reach
 - + manual control valve and standard wired remote
 - + Mounts on all MineMaster 520 and MM430 machines

Features

- + Up to 35ft reach
- + Utility shotcreter for hard-to-reach areas
- + Optional radio remote control



MINEMASTER®

MMS20

Shotcrete

Spray Arm



Specifications

LUBRICATION	– Manual Grease Points on Boom and Cradle	BOOM	– 3 Stage Telescopic Design – Capable of Lifting 1500 Pounds When Open To full Extension (16.5 ft) – Comes With Covers For Protecting Hydraulics and Cylinders
CRADLE GROUND CLEARANCE	–	NOZZLE	– 2 Axis Control With Oscillation Feature – Covers on Nozzle End to Protect Componets –
SHOTCRETER SYSTEM MASS	– Approx 2800 Pounds	STANDARD EQUIPMENT	– 2” Spray Nozzle With 3” Victaulic Coupler – LED Work Lights (4 Cradle/ 1 Boom) – Comes With Prop Rod to Support Boom For Maintenance – Foldable Stand For Operator Controls – See Through Vinyl Cover For Hydraulic/ Electrical Controls – Rubber Flaps to Protect Cradle
OVERALL HEIGHT	– 80” (When Mounted on MM430)		
OVERALL WIDTH	- 63”		
FORM OIL SYSTEM	- Tank Capacity: 4.9 Gallons (18.6 Litres) - Spray Wand and Hose Included - Uses Vegetable Oil For Release of Shotcrete From Boom and Cradle Surfaces		
CRADLE	– Overall Width: 63” (1.60m) – Comes With Fork Pockets For Ease of Removal – Outriggers are Manually Moved to Increase Width – Outtrigger Cylinder Travel: – Outtrigger Spand Distance: 10ft (Center to Center) 10’ 7” Maximum – Mechanical Quick Connect: For MM430/ MM520 – Hydraulic Quick Connect: Included		
OVERALL COLAPSED LENGTH	– 100 Inches		

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fax 705 566 5422

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tel 705 268 5438
fax 705 268 3382

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MMS20 Shotcrete Spray Arm

The MineMaster® MS20 is a compact shotcrete spray arm for utility shotcrete operations. The MS20 mounts onto any MineMaster 520 or MM430 and will mount on most other MineMaster vehicles. The MS20 is also ideally suited for mounting on other equipment because of its compact size and easy mounting system.

The MS20 adds significant functionality to any utility vehicle while keeping weight down.

- STRONG POINTS
- + Compact size and light weight design
 - + Simple Operation
 - + Quick Setup
 - + Can Be Mounted On Other Mining Vehicles

Features

- + Up to 20ft reach
- + Utility shotcrete arm for hard-to-reach areas
- + Optional radio remote control
- + 5 Work Lights (4 Cradle/ 1 Boom)
- + Covers to Protect Hydraulic Cylinders
- + Form Oil Sprayers
- + 3 Stage Telescopic Design
- + Max Height 23.5 (Open)



MINEMASTER®

Apollo 26.6



Specifications

ENGINE	– Electronic, Common rail, Teir 4
MAKE/MODEL	– Kubota / V3307
TYPE	4, Vertical in line
HORSEPOWER	– 54,6 kW (73 HP)
AFTER TREATMENT	– DPF
CERTIFICATION	– CANMET
FUEL	– DIESEL
CAPACITY	– 80,0 L (21,13 gal)
AXLES	– 2 steering, with 4 planetary reduction gears
TRANSMISSION	– Single speed Hydrostatic transmission with variable displacement pump
STEERING	– Hydraulic Power Steering
DRIVE SYSTEM	– 4WD
BRAKES (PARK/EMERGENCY)	– Front and Rear Multi Wet Disk brakes, Axle Enclosed SAHR
BRAKES (SERVICE)	– Enclosed, Wet disc
TIRES	– 6/11-16, INDUSTRIAL 22 PLY
SOUND LEVEL (OPERATOR)	– 85 dB (A)
PAYLOAD CAPACITY	– 2600 kg (5732 lb)

GROUND CLEARANCE	270MM (10.6 in.)
REACH AND CAPACITY	– Maximum capacity 2600 kg (5732 lb) – Maximum lifting height 5,68 m (18,6 ft) – Maximum horizontal reach 3,2 m (10,5 ft) – Fork swiveling angle 129°
BOOM	– Lifting 7,8 s – Descent 4,1 s – Extension 6,1 s – Retraction 3,4 s – Forward swiveling 3,5 s – Reverse swiveling 2,2 s
ELECTRICAL	– Mine Compliant Harness – Standard Wiring Integration – Standard overhead LED Lights, Beacons – Heavy-duty switches – 12V Battery
AVAILABLE CONFIGURATIONS	– Forklift – Manbasket – Bucket – Hoisting Crane – Sweeper

Specifications subject to change without prior notice

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Apollo Series

The Apollo 26.6 is the leader when it comes to underground telehandlers. The Apollo has a industry leading 5700lbs capacity, while maintaining in a small footprint. It comes standard with important safety features including : axle load sensors, deadman switched on controls, manbasket stability package, and more.

- STRONG POINTS**
- + Optional Fire Suppression (70L Hydraulic Oil)
 - + Sealed Axle Brakes (No Driveline brakes)
 - + CANMET certified diesel engines
 - + MineMaster Harness and Lighting System
 - + Heavy-duty skid plates for protection
 - + Simple Design and Components
 - + Dual steering axles; exceptional maneuverability and tight turning radius

Operator
Compartment

STANDARD CAB Configuration

Open Cab Configuration

AC and Heat

Standard Features

Multi-WET SAHR Emergency Brakes

4-Wheel Steering

16 Ft Lift Height

Axle Weight Sensors with Overload warning

Front Attachments

+ Manbaskets

+ Forks

+ Cranes

+ Buckets

+ Request attachment Catalog for more options



MINEMASTER®

Excavators



Low Profile Boom



Rotating Booms



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Excavators

MineMaster® series excavators are available in many sizes and configurations. The MineMaster excavator series is designed to provide underground mines with the reliability and familiarity of surface excavators in a certified mining package.

- STRONG POINTS
- + Ramp tested
 - + CANMET certified diesel engines (specific models)
 - + Walk-through operator compartment
 - + MineMaster wiring harness and lighting system
 - + Non slip 3-point access on all entry points
 - + Safety starting system

Standard Options

- + Sizes Ranginf from 1 ton to 8 ton
- + Steel or rubber tracks
- + Many bucket and blade options
- + Safety-Interlock starting system
- + Non slip 3-point access on all entry points

Operator Compartment

- + OPTIONAL ENCLOSED CAB
- + OPTIONAL STEEL CANOPY

Custom Options

- + Conveyor belt cleaners
- + Custom buckets and scrapers



MINEMASTER®

Other Equipment

- + Aerial Lifts
- + Custom Forklifts
- + Skid Steers
- + Telehandlers
- + Tractors
- + Shaft Mucking Excavators
- + Custom Shotcreters
- + Excavators
- + Graders



Specifications subject to change without prior notice

TRACKS + WHEELS

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Other Equipment

We have extensive experience building many custom machines for underground applications.

Contact us if you need a custom piece of equipment.

Other:

- + Aerial lifts
- + Tractors
- + Custom Shotcreters

Earth Moving:

- + Skid Steers
- + Excavators
- + Shaft Mucking Excavators
- + Graders

Material Handling:

- + Telehandlers
- + Tractors
- + Forklifts



MM530 EV Forklift



Specifications

ELECTRIC MOTOR	– Permanent Magnet AC Motor – Rated to IP 6k9k
TYPE	– Liquid Cooled
HORSEPOWER	– 88hp Peak/66hp continuous
VEHICLE CONTROL	– Control Display Interface with Colour Display – Intelligent Vehicle Controller – Battery Management System
BATTERY PACKAGE	– Long Life Lithium Iron-phosphate Battery – 46.8kWh, 320V, 144 Ahr – Enclosed Battery System
ONBOARD CHARGING SYSTEM	– 120 to 280 VAC Input – 11kW Charger
AXLES	– Axles on both Front and Rear
TRANSMISSION	– Hydraulic – Hydrostatic Load Sensing Transmission
STEERING	– Hydraulic Articulating Frame
DRIVE SYSTEM	– Electric/Hydraulic
BRAKES (Park/Emergency)	– SAHR Emergency/Park Brake – Enclosed Wet Disc Brakes

BRAKES (Service)	– Enclosed Wet Disc Brakes
TIRES	– 40 Inch Industrial A/C Tires
FORK CAPACITY	– 6000 Pounds at 24" Load Center
GROUND CLEARANCE	– 13 Inches (330.2mm)
LUBRICATION	– 8 Point Autolube System
ELECTRICAL	– Fully Upgraded Wiring Package – LED Lights – Heavy Duty Switches – 12V Battery For Beacon Lights
REAR BUMPER	– Robust Design With Built In Counterweights
OPTIONS	– Cab
STANDARD FEATURES	– Fire Extinguisher – Qty 2 10" Wheel Chocks – Roll Bar/Operator Guard – Articulation Locking Bar

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MM530 EV Forklift

The MineMaster® electric MM530 EV Forklift is a state-of-the-art battery electric vehicle (BEV) for the mining industry. Easily capable of lifting 6000lbs on the forklift mast the MM530 is the BEV utility forklift that modern mine operations need.

The MM530 EV is currently in the prototype phase. Contact us for more information

- STRONG POINTS
- + MineMaster Harness and Lighting System
 - + Heavy Duty Frame
 - + High Ground Clearance 13"
 - + Inching Pedal
 - + Protective Operator Guard

Tech Specs

- + Battery: 46.8 kWh LiFePO4 battery
- + Motor: 50kW rated power
- + Hydrostatic transmission
- + SAHR wet axle brakes
- + 12 inch operator screen

Safety System

- + Electronic BMS for battery safety and control
- + Automatic brake system
- + Electronic fault monitoring and reporting
- + Datalogging

Performance

- + 1+ hours of uphill drive time
- + 2-3 hours flat drive time
- + 4 hour full charge time



MM1140 EV



Specifications

ELECTRIC MOTOR	– PERMANENT MAGNET AC MOTOR Rated to IP67
TYPE	–Liquid Cooled
HORSEPOWER	– 50hp PEAK / 30hp Continuous
VEHICLE CONTROL	– Colour vehicle control display – Intelligent vehicle controler – Battery management system – DC/DC converter (1500w or 2500w @12V)
BATTERY PACKAGE	– Long life lithium-Ion battery – 29.5 kWh, 102V, 288Ah – Enclosed rust proof container – Quick charge disconnect –** Optional - larger battery
ONBOARD CHARGING SYSTEM	– 120-240V AC input Full J1772 compatibility – 60A or 120A DC charging current – Plugs 120V, 240V, 60Hz
AXLES	– Front: fully independent coilover (with limited slip) – Rear: fully independent HD coilover (Ppedal operated locker)
TRANSMISSION	– Variable Hydrostatic Transmission (VHT) – Range: low, high
STEERING	– Hydraulic power assist
DRIVE SYSTEM	– Permanent 4WD
BRAKES (Park/Emergency)	– Rear wheel, hand lever, wet disc

BRAKES (Service)	– Wet disc
TIRES	– 27x8.50R14LT
PAYLOAD CAPACITY	– Uo to 500kg (1300LBS) Hydraulic lift bed
GROUND CLEARANCE	– Front: 285 mm (11.3 in.) – Rear: 240 mm (9.4 in.)
FRONT BUMPER	– Standard tow hooks – Standard wheel chock holder – Optional spare tire holder
LUBRICATION	– Available 16-point auto-lube – F/R A-arm bushings – Driveshaft pillow block bearings
ELECTRICAL	– Fully upgraded wiring package – Standard overhead LED lights and strobes – Heavy-duty switches – 12V battery

Specifications subject to change without prior notice

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MM1140 EV Series

After substantial research and development, MINEMASTER® is excited to introduce the MM1140 EV Series. The Minemaster EV provides many advantages compared to their diesel counterparts, such as lower maintenance costs and lower noise levels. Producing no emissions, the EV dramatically improves air quality, especially in areas with minimal ventilation. Similar to its diesel counterpart the EV can be customized as a personnel, utility, or service vehicle to meet the needs of many demanding underground environments. As a personnel vehicle, it can be configured as a 2- or a 4- personnel carrier. As a utility vehicle, it can be equipped with a rear carrier, built-in toolboxes, rear work platform or a rear hydraulic tilt bed. As a service vehicle, it can be equipped with a winch, generator and air compressors for servicing other equipment.

DESIGN IMPROVEMENTS

- + More Rugged Styling
- + Improved Ergonomics
- + Improved Comfort and Convenience
- + Excellent Ride and Terrain-ability
- + Improved Durability
- + Retains True Workhorse Capabilities

STRONG POINTS

- + MineMaster Harness and Lighting System
- + Heavy-duty skid plates for protection
- + Walk-through operator compartment
- + High ground clearance (9" - 11")
- + Non slip 3-point access on all entry points
- + Safety starting system
- + Permanent magent AC motor: 24kW and IP67
- + 29.5kWh battery package
- + Color vehicle control display
- + Wet disc brakes

Operator Compartment

STANDARD ROPS

(SAE J2194 & OSHA 1928)
(SHOWN BELOW)

OPTIONAL ROPS/FOPS

(CSA & ISO LEVEL 2 OPEN ROPS)

OPTIONAL ENCLOSED CAB

OPTIONAL STEEL CANOPY

Rear Options

HYDRAULIC BED-LIFT (AS SHOWN)

- Expandable cargo bed operable in 2 or 4-seat configuration

PERSONNEL CARRIER

- Up to 2-personnel in cargo bed

REAR WORK PLATFORM

BUILT-IN TOOLBOXES

GENERATOR & AIR COMPRESSOR

EMERGENCY MEDICAL SERVICE KIT (EMS)



Commander EV



Specifications

DRIVE ELECTRIC MOTOR	<ul style="list-style-type: none">– Liquid cooled, IP67 fully sealed & protection, 126 kW, maintenance free– 2 drive electric motors direct dr	24V ELECTRICAL SYSTEM	<ul style="list-style-type: none">– Fully enclosed Lithium battery package
MOTOR DRIVE CONTROLLER	<ul style="list-style-type: none">– CAN bus, IP67 fully sealed & protection, liquid cooled	SYSTEM BATTERY PACKAGES	<ul style="list-style-type: none">– Lithium Iron Phosphate (LiFePO4)– Fully enclosed battery packages 96 kW, 325V– Easy to remove individual module
AXLES	<ul style="list-style-type: none">– F: DANA 211 & R: DANA 111	BATTERY MANAGEMENT SYSTEM (BMS)	<ul style="list-style-type: none">– CAN bus communication to control the battery packages– Data: SOH, SOC, voltage, current, error code– Over & under voltage protection– Cell balancing & thermal sensing
SERVICE/EMG./PARK BRAKE	<ul style="list-style-type: none">– Enclosed 4 axle mounted– Certified CAN?CSA M423.3-M90 Braking Test	ONBOARD CHARGE SYSTEM	<ul style="list-style-type: none">– 600V x2 onboard chargers without requirement of transformers– Liquid cooled, IP67 fully sealed & protection– Total capacity 40 kWh
TIRES	<ul style="list-style-type: none">– Goodyear LT315/75-16	CHARGER PLUG	<ul style="list-style-type: none">– CSA certified 600V, 3 phases– IP66/67 Protection– Self closing cap
SUSPENSION	<ul style="list-style-type: none">– Maintenance free front & rear 4-link with coil over shocks	CHARGE TIME	<ul style="list-style-type: none">– Fully charge 2.5-3hrs
PAYLOAD CAPACITY	<ul style="list-style-type: none">– Up to 3000 lbs depending on configuration	VEHICLE CONTROL	<ul style="list-style-type: none">– 12" display, IP 67 protection– CAN bus communication, PLC program, easy diagnostic– Display: battery health, temperature, regenerative brake remaining aprx. distance, hrs of driving, speed, distance, hr meter, error code, trouble-shoot ability
HYD. ELECTRIC MOTOR & CONTROL	<ul style="list-style-type: none">– Liquid cooled, IP67 fully sealed & protection, 126kW, maintenance free	ENCLOSED CAB	<ul style="list-style-type: none">– Certified CSA ROPS/FOPS level 2– Fully enclosed with safety glass– Air condition, heat system
DC/DC CONVERTER	<ul style="list-style-type: none">– CAN bus, liquid cooled 4kW	OPERATING TIME	<ul style="list-style-type: none">– Mix modes 3 - 6 hrs (depending on load, ramp)
STEERING	<ul style="list-style-type: none">– Front Axle Steering		
DRIVE SYSTEM	<ul style="list-style-type: none">– Permanent 4WD		
BRAKES (PARK/EMERGENCY)	<ul style="list-style-type: none">– Spring applied hydraulic released enclosed wet disc brake– S.A.H.R dash activated and automatic with loss of hydraulic or engine power		
BRAKES (SERVICE)	<ul style="list-style-type: none">– Enclosed, Wet disc		
TIRES	<ul style="list-style-type: none">– 405/70R18		

NEW STANDARD FEATURES

- + Superior Performance from surface to ultra deep mining
- + 5 personnel carrier with cargo box
- + Comfortable ride with front & rear suspension systems
- + Innovative electric powertrain design
- + High environmental protection on all electrical components

Specifications subject to change without prior notice

TRACKS + WHEELS

tracksandwheels.com

minemaster.com

We have built the MINEMASTER® product in several standard configurations to suit a variety of applications. We also design and build custom units based on our customers’ unique needs and requirements.

Contact us at sales@minemaster.com for complete specifications and general arrangement of drawings of the MINEMASTER® you require.



SUDBURY
400 Hwy. 69 N. Box 2592
Sudbury, Ontario
Canada P3A 4S9
tel 705 566 5438
fax 705 566 5422

TIMMINS
2200 Riverside Dr. RR2
Timmins, ON
Canada P4R 0A1
tel 705 268 5438
fax 705 268 3382

NORTH BAY
127 Pinewood Park Drive
North Bay, ON
Canada P1B 8Z4
tel 705 840 5438
fax 705 474 0717

Commander EV

The MINEMASTER® Commander Series is a new class of underground personnel carrier designed from years of research and customer input. The Commander offers a comfortable and controlled ride without sacrificing payload capacity. Combined with low maintenance requirements and ground level service, the Commander is in a class of its own.

STRONG POINTS

- + Fully upgraded electrical system
- + Heavy-duty frame
- + Stainless steel dash and heavy-duty switches
- + Walk-through operator compartment
- + Inching pedal
- + High ground clearance
- + Protective operator guards
- + Non slip 3-point access on all entry points
- + Safety -interlock starting system

