

General Specifications - MineMaster Torquematic



DIESEL ENGINE:

Make: Perkins
 Model: 1104C-44T (USA EPA Tier 2 & EU Stage 2 Compliant)
 Power: 74.5 KW (99 hp) @ 2400 RPM
 Displacement: 4.4L (268.5 cu. in.) 4 Cylinder
 Exhaust System: Stainless Catalytic Muffler Assembly

TRANSMISSION:

Make: International Transmission Ltd.
 Model: PS760 Power Shift Full Time 4 WD
 Type: fully Synchronized electro-Hydraulic Shuttle Shift Power shift
 Speeds: 3 Selected Speeds
 Transmission Ratio: 1:1.528
 Torque Converter :
 - Make: International Transmission Ltd.
 - Model: 131658
 - Stall Ratio: 2.018:1

AXLES:

Front Axle:

-Make: International Transmission Ltd.
 -Model: SD 55/ST
 -Type: Center oscillation mounted drive/steer
 -Ratio: 16.2:1

Rear Axle:

-Make: International Transmission Ltd.
 -Model: PD 70
 -Type: Pad Mounted Drive
 -Ratio: 15.78:1

HYDRAULICS:

Pump:
 -Make: Parker
 -Model: 22PR041
 -Type: Fixed Displacement Gear Pump
 Rated Capacity: 95L/min (25 gpm) @ Rated Engine RPM
 Rated Pressure: 207 bar (3000 psi)

STEERING:

Load Sense Power Steering w/ Hyd. Pump Assistance

TIRES AND WHEELS:

Front Drive/Steer Tire: 26.5/70R X 19.5 Goodyear
 Rear Drive Tire: 17.5 X 25 Radial

STANDARD FEATURES:

3 Point Contact & Required Step Height At All Entrance Ways
 All Walk Ways Grated Or Treated With Anti-Slip Compounds
 Accessible Stowing Location For Wheel Chock Blocks
 Suspension Seating Operator And Passengers
 Accessible Electrical And Hydraulic Components For Servicing
 20 lb. Fire Extinguisher Mount
 Skid Pans

ELECTRICAL:

Alternator Make: Nippon Denso
 Alternator Output: 75 Amps
 System Type: 12 VDC Negative Ground
 Wire System: Individual Self-Extinguishing
 Harnesses, Sealed From Enclosure to Component Connection
 Starter make - Magneti Marelli

LIGHTING ELECTRICAL:

Front: 4 - 5" 50 Watt Halogen Sealed Beam Lamps
 Rear: 2 - 5" 50 Watt Halogen Sealed Beam Lamps
 Solid State Flashing Light (Actuated By Master Switch)
 (Isolated Circuit, Can Be Actuated With All Electrical Disconnected)
 Non-Piezoelectric Reverse Travel Alarm,
 Auto Scaling Volume For Ambient Noise level

INSTRUMENTATION:

Tachometer/electronic hour meter
 Engine Oil Pressure Gauge/Warning Light
 Engine Temperature Gauge/Warning Light
 Transmission Temperature Gauge/Warning Light
 Transmission Pressure Warning Light
 Accumulator Low Pressure Warning Light
 General Transmission Status Warning Light
 Audible warning device accompanies visual warning lights
 Fuel Gauge

BRAKE SYSTEMS:

Spring applied hydraulically released internal wet disc
 Emergency/park brake:
 Two independent wet disc service brakes in drive axle. Dual accumulator/dual service pedal provides redundancy, Automatic emergency brake application in event of low pressures in accumulators, transmission or engine.

FLUID CAPACITIES:

Engine Oil: 9.4L (1.7 US Gal)
 Engine Coolant: 33.6L (8.9 US Gal)
 Transmission Oil: 16.0L (4.3 us Gal)
 Front Axle Case: 13.5L (3.6 US Gal)
 Front Axle Hub: 1.9L (0.5 US Gal)
 Rear Axle Case: 25.0L (6.6 US Gal)
 Hydraulic System: 79.0L (20.9 US Gal)
 Fuel System: 98.0L (25.9 US Gal)

CALCULATED LOADED RAMP SPEEDS:

99 HP Engine: 14 Kph

OPTIONS AND CONFIGURATIONS:

Engine: 61.9 KW (83 hp) Perkins
 Engine: 74.5 KW (100 hp) Caterpillar
 Engine: 87.3 KW (117 hp) Caterpillar
 Rear Forklift Capacity: 3629 Kg (6000 lbs)
 Rear Scissor Lift (Hydraulic Leveling)
 Certified Rops/Fops Structure
 Carrier Seating Capacity: 2 - 9 Persons
 Ansil Fire Suppression System
 Automatic Greasing Systems
 Six Pole Main Power Disconnect
 Aluminum Wheel Chock Blocks
 20 lbs ABC Fire Extinguisher
 Option LED Taillights
 (Automatic Actuation With Main Power)
 Additional Colored Flashing Lights

OPTIONAL ATTACHMENTS

BACKHOE SPECIFICATIONS:

Sideshift type - Vertical Stabilizers
 Max. Digging Depth: 9'
 Bucket Width: 17.7"
 Bucket Digging Force: 4,100 Lbs.
 Sideshift: 19.5" (Each Way)

LOADER SPECIFICATIONS:

Lifting Capacity @ 24" load center
 Lifting Capacity to full height 3,970 lbs
 Ramp travel capacity 4,160 lbs
 Level ground capacity 5,200 lbs
 Lift Height @ Pivot Pts. 3.75 Meter
 Loader Weight: 810 KG (1,786 Lbs.)
 Valve Make: Danfoss
 Valve Type: Proportional PVG 32 Series Sectional
 Rated Capacity: 129L/min (34 gpm)
 Operator Pressure: 350 bar (2750 psi)

PALLET FORKS:

Back Load Rest
 Std Forks

JIB CRANE:

Model PC2300 - 2 Section Hyd. Boom Extension
 Max. Outreach: 16'-9"
 Max. Lift @ 16'-9": 840 Lbs

FORKLIFT:

Capacity: 6,000 @ 24" LC
 Free Lift: Full Free Lift
 Tilt: Fwd-45° Rwd-12°
 Forks: Flip-up
 Mast Sideshift : 6"
 Mast under clearance: 12"

MINEMASTER TORQUEMATIC



**WHEN IT COMES TO MINE UTILITY
 VEHICLES NOTHING BEATS A
 MINEMASTER!**



Tracks & Wheels builds the MineMaster product in several standard configurations to suit a variety of applications, we also design and build custom units to our customers unique needs for specialized applications. Contact us for complete specifications and general arrangement drawings of the Mine Master you require.



TRACKS & WHEELS
 Equipment Brokers Inc.
 Registered ISO 9001:2000



SUDBURY 400 69 N. Box 2592 Sudbury, ON P3A 4S9 Tel: (705) 566-5438 Fax: (705) 566-5422	TIMMINS 2200 Riverside Dr. RR2 Timmins, ON P4N 7C3 Tel: (705) 268-5438 Fax: (705) 268-3382	NORTH BAY 701 Graham Drive North Bay, ON P1B 9E6 Tel: (705) 840-5438 Fax: (705) 474-0417	SAULT STE MARIE 232 Drive-In Road Sault Ste Marie, ON P6B 6A9 Tel: (705) 256-5438 Fax: (705) 256-1451	THOMPSON MB 35 Station Rd Thompson, MB R8N 0N6 Tel: (204) 778-3777 Fax: (204) 778-4477
---	---	---	--	---

WEBSITE: www.tracksandwheels.com EMAIL: sudbury@tracksandwheels.com

"Our Service Makes the Difference"



TRACKS & WHEELS
 Equipment Brokers Inc.
 Registered ISO 9001:2000

MineMaster TORQUEMATIC T-100

When you compare power, performance and versatility the MineMaster Torquematic T-100 wins every time. This MineMaster is loaded with new features and can adapt to any challenge you give it.



The T-100 Torquematic features a heavy duty frame, load sensing power steering, four wheel drive, powershift transmission, and is available as a 2-9 man personnel carrier, utility vehicle or service vehicle.

FEATURES

ENGINE



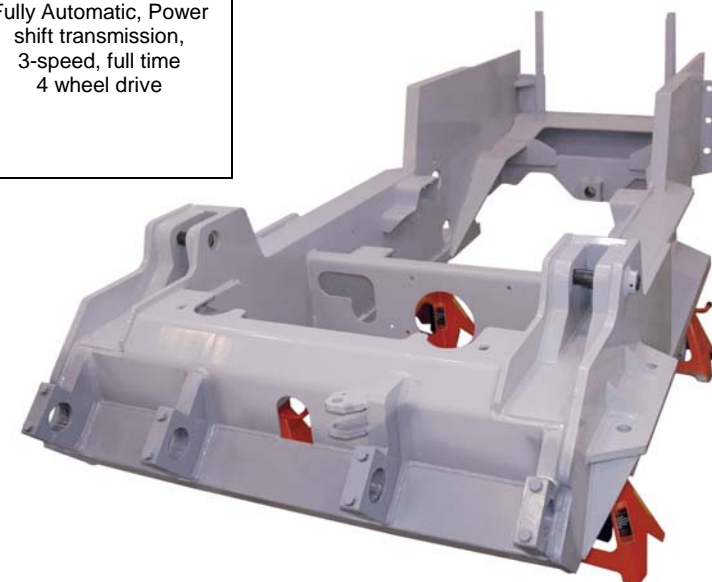
Perkins turbocharged, 4 cylinder, diesel 99 hp @ 2400 RPM (USA EPA Tier II & EU stage 2 Compliant), low noise, low emission

TRANSMISSION



Fully Automatic, Power shift transmission, 3-speed, full time 4 wheel drive

The Torquematic frame is built of heavy duty, solid steel construction. Its outstanding frame strength easily supports heavy duty components and provides unbeatable lifting capacity. This unique design gives complete access to major components for maintenance and the modular design allows for easy disassemble and reassembling for transporting underground.



FRONT LOADER

Our front loader offers unmatched lifting capacity capable of lifting 5,200 lbs! Seen here lifting 2 bags of Shotcrete with ease.



SERVICING

Our flip-open hood allows for quick and easy servicing with an unobstructed view of the engine compartment and is all within easy reach from ground level.

- Service Vehicles
- Personnel Carriers
- Tool Carriers
- Front Forklifts
- Rear Forklifts
- Scissor lifts
- Backhoe
- Loaders

Our strong points include:

- The MineMaster Torquematic is custom designed from the ground up for the mining industry.
- Built for strength and durability.
- The MineMaster Torquematic boasts an outstanding lift capacity capable of lifting 5,200 lbs!
- Industry proven powertrain and powershift transmission.
- Exceptional turning radius designed to work efficiently in close quarters.
- Units are custom designed and built to our customers unique needs and requirements.
- We offer multifunctional units with a wide variety of attachments allowing one unit to handle multiple tasks with ease reducing your costs and improving your bottom line.

Attachments include

- Backhoe
- Loader assembly
- Rear forklift
- Scissor lift
- Hydraulic cable reel
- Hydraulic breakers
- Pallet forks
- Jib boom
- Welder
- Generator
- Man basket
- Front/rear work platforms
- Winch
- Canopy, ROPS, Folding ROPS



<p>PERSONNEL CARRIERS</p> <p>Available as a 2-9 man personnel carrier.</p>	<p>REAR AXLE</p> <p>Pad mounted, rigid planetary axle, Max Trac® four-pinion differential, gearing has specially shaped spider gears providing torque proportioning. High load capacity providing low wear and less maintenance.</p>	<p>FRONT AXLE</p> <p>Pin mounted, oscillating axle for greater stability in rough terrain. With integrated reduction gear and sealed tapered roller bearings. High load capacity providing low wear and less maintenance.</p>
<p>BACKHOE & REAR FORKLIFT OPTIONS</p> <p>Backhoe - standard, rotating, or side-shifting, standard bucket or scraper Forklift - standard, flip-up, adjustable forks, quick-attach rear man basket</p>	<p>EASY FILL POINTS</p> <p>Fill and check points are at easy reach from ground level. All caps are painted, and labeled for easy identification and chained for safety.</p>	<p>OPERATOR'S COMPARTMENT</p> <p>Operator's compartment features large easy to read gauges all within easy reach of the operator to minimize operator stress and strain. The adjustable suspension seating reduces noise and vibration levels enhancing operator comfort.</p>
<p>FRONT LOADER OPTIONS</p> <p>Front Loader - bucket, pallet forks, standard, adjustable or flip-up forks Man basket - quick attach man basket Hydraulic cable reel</p>	<p>3-point contact on all entry/exit ways.</p>	<p>LUBRICATION</p> <p>The Torquematic offers a 36 point in-line auto lubrication system with 9 lubrication points on front axle, 14 lubrication points on main unit, and 13 lubrication points on front loader. Greasing is completed in one step by re-filling the grease reservoir.</p>

Our excellence in quality is achieved through the commitment of our highly skilled staff combined with the selection and continual updating of the equipment, materials, processes, and manufacturing methods.