



General Specifications - MineMaster® M845 Grader

ENGINE

- Model: Cummins QSB 6.7, Tier III Certified
- Horse power: Gross 150/173 hp @2200 rpm
- Type: 4-stroke, Turbocharged
- Cylinders: 6, in-line
- Fuel: Diesel (manual & WIGGINS fill system)
- Cooling: Liquid

POWER TRAIN

- Rear Axle:
- Differential: Hydraulic Lock, Operator Controlled
 - Tandems: Welded plate with 20 degree oscillation each way

Front Axle:

- Heavy Duty Welded Steel
- 8" ground clearance
- 19 degree oscillation each way
- 17.5 degree wheel lean left/right

BRAKES

- Outboard planetary wet disc brakes
- Park/Emergency Brake: Spring applied/hydraulically released brake on output shaft of transmission

HYDRAULICS

- Closed center, load sensing
- Variable displacement pump
- 9-Section control valve
- Front attachment piping
- Eight (8) Hydraulic diagnostic quick couplers
- Hydraulic driven cooling fan

MAINFRAME

- Heavy Duty all welded box

DRAWBAR

- "A" frame welded construction with center mounted circle turn motor
- Shim adjustable ball and circle

CIRCLE

- 360 degree rotation
- Welded construction
- Hydraulic drive motor

TRANSMISSION

- Direct Drive Countershaft Power-shift transmission with electronic shift control and inching pedal
- Speeds: 5 forward, 2 speeds reverse
- Onboard diagnostics
- Automatic electronic control shifting
- Single lever bump style shifter
- Inching pedal

INSTRUMENTATION/GUAGES

- Engine oil pressure
- Engine coolant temperature
- Fuel level
- Transmission oil pressure
- Transmission oil temperature
- Brake oil pressure
- Battery charge
- Hourmeter
- Tachometer
- Parking brake applied
- Air and hydraulic oil filter restriction
- Speedometer
- Gear shift display

TIRES

- 10.00 x 20 (7.5" 1 piece rim)
- Foam filled tires
- Low profile design

MOLDBOARD

- Hydraulic moldboard side shift and pitch
- Moldboard float control
- Saddle with 5 positions
- High carbon steel
- Involute curve shape
- Length: 10' - 14'
- Height: 22"
- 12 x .875" Thick moldboard
- Ground penetration: 15" (max)
- Above Ground Lift: 13.5" (max)
- Cutting Angle: 90 degrees (max)

STEERING

- Hydrostatic power steering

ARTICULATION

- Hydraulic actuated (with lock valve)
- Range: 25 degree left or right
- Hydraulic controls

ELECTRICAL

- Voltage: 24 VDC
- Headlights: 2
- Tail lights: 2
- Moldboard work lights: 4
- Backup alarm
- Alternator: 80 amps
- Batteries: 2, low maintenance
- Beacon lights (2)

OPERATOR'S COMPARTMENT

- Adjustable operator's console
- Adjustable operator suspension seat
- Retractable seat belt
- Walk-through operator compartment
- Steps-both left and right side
- Horn

MINING PACKAGE

- Waterproof stainless steel electrical compartment
- Beacon lights (1) front & (1) rear
- Fire suppression system
- 37 point Auto Lube system
- Air pre-cleaner
- HD Rear guard
- HD fuel tank
- Rear towing lugs
- 6 pole Master switch
- Front guard
- Wheel chocks
- WIGGINS fast fill fuel system
- Ceramic exhaust coating
- Folding steps

Specifications subject to change without prior notice

Tracks & Wheels has built the MineMaster® product in several standard configurations to suit a variety of applications. We also design and build custom units to our customer's unique needs in specialized applications. Contact us for complete specifications and general arrangement drawings of the MineMaster® vehicle/unit you require.



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Registered ISO 9001:2008



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"Our Service Makes the Difference"

B110005 Ver. 0211

MINEMASTER® M845 GRADER

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



MineMaster® M845
Low Profile Underground Grader



TRACKS & WHEELS
Equipment Brokers Inc.
Registered ISO 9001:2008

MineMaster® M845 Grader Series

FEATURES

The MineMaster® M845 Underground Grader was uniquely designed for underground ramp maintenance. This unit offers a sleek low profile design with front frame and rear hood sloping away from the operator allowing a clear, unobstructed view in all directions. In addition the M845 boasts an overall height of just 94" and a full 8" of ground clearance! The articulated frame and low-effort control levers allow the operator to easily maneuver up and down ramps, turn corners and work efficiently in tight working conditions.



MineMaster®
Mine
Maintenance
Vehicles

Our strong points include:

- Tier III certified engine
- Excellent visibility all around
- Tightest turning radius in the industry
- Heavy duty front & rear guards
- Auto lube system
- Upgraded electrical compartment
- Heavy duty fuel tank
- Wiggins fast fill fuel system
- Fire suppression system
- Ergonomically designed operator compartment to minimize operator stress
- Protective operator guards
- High ground clearance
- Outstanding fuel efficiency, low emissions
- Accumulator blade protection & Internal circle gear



Options & Attachments include

- ROPS
- Front scarifier with 5-11 teeth
- Front blade
- Moldboard from 10'-14'

ENGINE



The M845 Grader features a Tier III certified, turbo charged, Cummins QSB 6.7, 6 cylinder diesel engine. Swing out side panels allow for easy access to engine compartments and daily check points.

The MineMaster® M845 Grader is powered by a turbo-charged Cummins 6 cylinder dual horsepower 150/173 diesel engine, with operating speeds up to 14 Km/mph. The heavy duty construction and rugged A-frame design provide the strength to handle the extreme conditions of the underground environment.

This unit features a heavy duty articulated frame, which is articulated ahead of the operator compartment giving the MineMaster® M845 Grader the tightest turning radius in the industry.

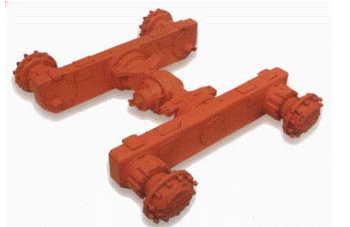


ELECTRICAL COMPARTMENT



Electrical components are enclosed in a waterproof stainless steel compartment.

REAR AXLE



Rear axle is tandem drive. Each tandem assembly oscillates and pivots on a tandem hub bushing. Differential hydraulic lock is operator controlled. Outboard wet disc brakes on each wheel.

EXHAUST



The exhaust system on the M845 Grader is equipped with a purifier muffler and utilizes ceramic coating and Firwin wrapped for hot surface protection. The added deflector directs the exhaust to the rear of the machine to minimize dust.

LUBRICATION



The M845 Grader features a 37 point in-line auto lube system. Greasing is completed in one step by refilling the grease reservoir.

FUEL TANK

The fuel tank on the M845 is heavy duty construction with a high fuel capacity for extended operating between refueling.

FRONT AXLE



Front axle is built with high strength welded steel for strength and durability. With an oscillation of 19° in each direction and a wheel lean of 17.5° to the left or right for maximum traction and moldboard control.

EASY FILL POINTS



Fill and check points are easy reach from ground level. All caps are painted and labeled for easy identification.

SEAT

The grader is equipped with an air-ride, fully adjustable suspension seat complete with two arm rests, lumbar support and a retractable seat belt with a 10° tilt forward or backward.



FIRE SUPPRESSION



The M845 Grader is equipped with an Ansul Fire suppression system which is located within easy reach of the operator at all times for emergency use.

REAR COMPARTMENT



The Batteries, hydraulic tank and master switch are located in the rear compartment for easy access.

3-Point Contact



3-point contact on all entry/exit ways. All walkways are grated and/or treated with anti-slip compounds. Clear, unobstructed hand holds, foot holds and walkways.

OPERATOR'S COMPARTMENT



Operator's compartment features include a tilting steering column and wheel for maximum comfort. Industry standard control patterns, large easy to read gauges, and all controls are within easy reach of the operator to minimize operator stress and strain. Walk-through operator compartment can be accessed from either side.

INSTRUMENT PANEL



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.