M845 Underground Grader
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The MINEMASTER M845 is a low profile grader, designed specifically for underground ramp maintenance. The front frame and rear hood slope away from the operator compartment, creating an unobstructed view in all directions. The articulating frame—which gives the M845 the tightest turning radius in the industry—allows the operator to easily maneuver in the tight underground environment. The M845 boasts an overall height of just 96 in. and a full 8 in. of ground clearance.

**STRONG POINTS**
- Tier III certified engine
- Excellent 360° visibility
- 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 and low emissions
- Accumulator blade, internal circle gear protection

**Front Options**
- SCARIFIER
  - 5-11 Teeth
- BLADE
  - 10-14 ft. length
  - Saddle with 5 positions
  - Blade pressure: 16,854 lb.

**MOLDBOARD**
- 10-14 ft. length
- Saddle with 5 positions
- Blade pressure: 16,854 lb.

**ARTICULATING FRAME**
- 25° left or right hydraulically

**Operator Compartment**
- CSA certified
- ROLL-OVER PROTECTION STRUCTURE (ROPS/FOPS)

**EXHAUST**
- Ceramic coated purifier muffler
- Rear deflector minimizes dust
### Specifications

**ENGINE**
- CUMMINS DSB 6.7 L, Tier III certified, electronic controlled

**TYPE**
- 4-stroke, turbocharged, air to air after cooled
- Common rail, cooling liquid

**DUAL HORSEPOWER**
- Gross: 150/173 hp (112/129 kW) @ 2200 rpm
- Net: 140/160 hp (104/119 kW) @ 2200 rpm

**TORQUE**
- Maximum @ 1500 rpm: Net 485/550 ft.lb. (658/746 N.m)

**CERAMIC COATING**
- Exhaust manifold, hot side of turbo
- Exhaust purifier

**EXHAUST TAILPIPE**
- Firwin Mark III Mining Spec.

**FUEL**
- Manual & WIGGINS fill systems, steel fuel tank

**SERVICING**
- 7 access doors to engine compartment

**TRANSMISSION**
- Direct drive countershaft power-shift transmission with electronic shift control and inching pedal
- 5-forward / 2-reverse speeds
- Automatic electronic control shifting w/ single lever bump style shifter
- Onboard diagnostics

**AXLE (FRONT)**
- Heavy-duty welded steel
- ±19° oscillation
- 17.5° wheel lean left/right

**AXLE (REAR)**
- Differential: hydraulic lock, operator controlled
- Tandems: welded plate with ±20° oscillation

**BRAKES (SERVICE)**
- Outboard planetary wet disc brakes

**BRAKES (EMERGENCY/PARK)**
- Spring applied/hydraulically released
- S.A.H.R. dash activated or automatic with loss of hydraulic or engine stall

**STRUCTURE**
- Mainframe is a heavy-duty all welded box
- Articulation range: 25° left or right hydraulically
- Drawbar is an ‘A’ frame welded construction with center mounted circle turn motor
- Circle outside diameter 69 in. is turned by hydraulic motor, 360° rotation
- Heavy-duty structure front and rear bumper

**TIRES & RIMS**
- 6 low profile foam filled tires with one-piece rims

**HYDRAULICS**
- Closed center, load sensing hydraulic system
- Fixed displacement pump, load sensing and variable discharge
- 9-section control valve, 8-hydraulic diagnostic quick couplers
- Hydraulic driven cooling fan
- 37-point Lincoln auto lube system

**OPERATING WEIGHT**
- 29,777 lb. (13,535 kg) up to 34,700 lb. (15,740 kg)
- Weight may vary depending on options and attachments

**OPERATOR’S COMPARTMENT**
- Ergonomic design, low profile, excellent visibility
- Vinyl adjustable suspension seat with seat belt
- Adjustable operator’s console
- Steps on both left and right side with 3-point contact
- Hydrostatic power steering
- Ansul 101-30 fire suppression system
- Operator floor: 3 piece design for easy access underneath components

**INSTRUMENTS (CONSOLE DISPLAYS)**
- Engine speed, travel speed, current gear selected
- RPM display digital
- Engine & transmission diagnostic
- Hour meter, differential lock indicator
- Gauge: audible and visible data monitor system

**INSTRUMENTS (WATERPROOF SSTL ELECTRICAL)**
- Engine & transmission pressure gauges
- Engine oil & transmission coolant temperature gauges
- Diesel fuel level indicator gauge
- Throttle control lever
- Ignition rotary switch
- Emergency/park brake button
- Blade floatation left & right, cylinder switch
- Saddle lock switch

**ELECTRICAL**
- 24 V DC electrical system
- 2 headlights, 2 tail lights, 4 moldboard work lights
- Front & rear beacon lights
- Backup alarm
- 80 amp alternator
- 2 batteries
- 6-pole master switch

**MOLDBOARD**
- 12 ft. long moldboard
- Involute curve shape high-carbon steel
- Hydraulic moldboard side shift & pitch
- Moldboard float control
- Saddle with 5 positions
- Blade pressure: 16,854 lb. (7,645 kg)

**OPTIONS**
- Open CSA Certified ROPS/FOPS with two height level adjustments
- Wheel chocks
- Moldboard: 10 ft., 13 ft., 14 ft. length
- Artic package
- Enclosed low profile cab with heat & air condition

**MINING PACKAGE**
- Waterproof stainless steel electrical compartment
- Beacon lights
- Fire suppression system
- 37 point auto lube system
- Air pre-cleaner
- Heavy-duty front & rear guard and fuel tank
- Rear towing lugs
- 6-pole master switch
- Wheel Chocks
- WIGGINS fast fill fuel system
- Ceramic exhaust coating
- Folding steps

Specifications subject to change without prior notice.

**TRACKS + WHEELS**
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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@tracksandwheels.com for complete specifications and general arrangement of drawings of the MINEMASTER® you require.

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