



MB4 Custom Chassis Snow Blower

M-B Companies, Inc.



The MB4 Chassis is designed for airport snow blowers and can interchange to host plows, front brooms, tow brooms, underbody scrapers, and other equipment as desired. Both engine enclosures on the MB4 feature full length, full height butterfly side covers that rotate upward, exposing the entire engine compartment for unimpeded maintenance access.

The unique M-B blower ribbon features hydrostatic drive from the chassis engine. M-B electronic control assures ribbon speed exceeds ground speed. The blower engine's full 700 horsepower mechanically drives the impeller, enabling 7500 TPH performance and casting distances over 150 feet.

The MB "Torque Flow" transfer case center differential constantly proportions torque between front and rear axles. Coupled with electronic automatic traction control the torque proportioning transfer case reduces tire wear while assuring the most efficient use of vehicle power.

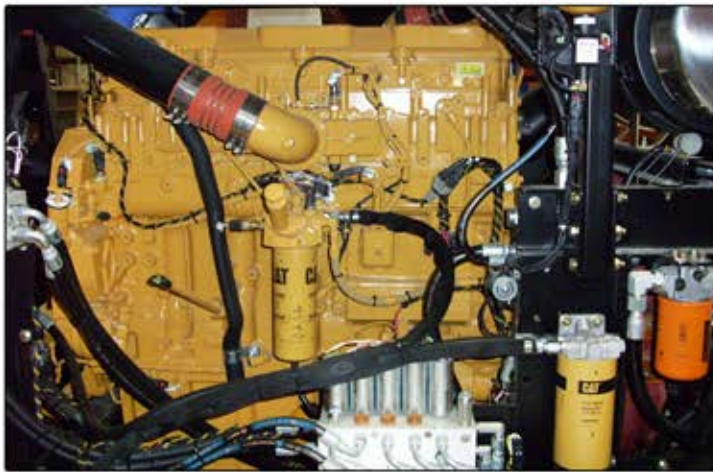
A tapered spring suspension allows for a smoother ride and increased driver control. Driver comfort is assured with air-ride seats and an air-ride cab.





Custom Chassis Snow Blower

The MB4 operator is protected from fatigue by air ride seats and an air ride cab and interior noise levels well below OSHA requirements. The MB "Torque Flow" transfer case center differential constantly proportions torque between front and rear axles, directing power to the wheels with the most traction. Coupled with automatic traction control, torque proportioning reduces tire wear while assuring the most effective use of vehicle power.



MB4 - Dual Engines

The MB4 comes standard with a Caterpillar C13 475 HP electronic controlled turbocharged diesel drive engine coupled to an Allison RDS4000 6-speed automatic transmission to power the chassis and the snow blower ribbon. A Caterpillar C18 700 HP electronic controlled turbocharged diesel connected to an over center clutch and drop box mechanically drives the impeller. Both engine enclosures feature full length, full height butterfly side covers that rotate upward, exposing the entire engine compartment for unimpeded maintenance access. The enclosures cover the catwalks while in the operational position, keeping them free of snow and ice for personnel safety, and to avoid snow and ice chunks littering the runway.



MB4 - 2 Person Cab

The MB cab is common to all MB custom chassis. It is ergonomically designed to include dual air ride seats, cab air ride, forward slope windshield with flat glass, panoramic view, CAN bus controls, and MDC (Monitor, Diagnose and electronic Control) as standard. Air conditioning, heated windshield, heated wipers, severe duty heating package, side window wipers and many other features are available as options.



mb4

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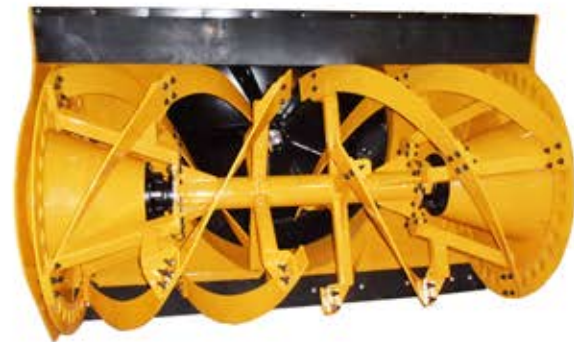


MB4 Blower & Ribbon

MB4 blower volume is maximized by M-B's unique application of torque and horsepower. The full power of a Caterpillar C18 700 HP engine is dedicated to mechanically driving the impeller by means of an over center clutch, drop box, and gear reduction. The result is up to 7500 tons of snow per hour, and cast distances exceeding 150 feet.

The dual motor fully reversible ribbon is hydrostatically driven by an electronic control variable displacement hydrostatic pump mounted on the chassis engine. M-B electronic controls are programmed to assure that ribbon speed exceeds ground speed. M-B's separation of power maximizes impeller capacity and use of on board horsepower.

The 59 inch welded impeller is repairable in the field, and features replaceable, bolt-on blades. A shear pin system protects the impeller and drive train. Ribbon segments are also individually replaceable. To minimize damage, the ribbon center end points are staggered to allow processing of a wheel chock or other loose impediment without jamming into the moldboard. The impeller housing rotates through a 140 degree arc from the flat cast right direction. An optional spot cast loading chute is available for precise snow placement and/or truck/trailer loading.



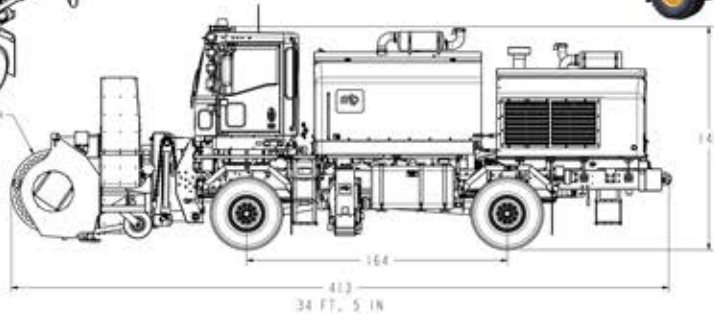
800-558-5800

www.m-bco.com

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SCALE: 1:100



SPECIFICATIONS:

AXLES

- MB 29,000 lb front drive/steer axle with operator controlled limited slip differential
- Dana 23,000 lb rear driving axle with operator controlled limited slip differential
- Optional MB 27,000 pound rear drive/steer axle with operator controlled limited slip differential
- 35 degree cramp angle on all drive/steer axles

BRAKES

- ABS Air Brake Control system (4-channel)
- Automatic traction control

CAB & CHASSIS

- MB two-person air suspension cab with air ride driver and passenger seats
- Rear engine configuration, full time four wheel drive standard
- Chassis drive engine includes full length, full height fiberglass butterfly type enclosure on the right for full easy engine compartment access
- Blower engine at mid-ship includes full length, full height fiberglass butterfly type enclosure on both sides for full easy engine compartment access
- Cab integrated microprocessor CAN bus controls with MDC (Monitor, Diagnose, Control) color screen display
- CAN joystick with integrated controls for blower, plow, optional broom, plow, and other attachments
- Four windshield wipers powered by three individual motor systems for better snow and ice removal from windshield
- Panoramic view; all flat glass for ease of local replacement
- Cab tapers front to rear for improved vision to rear
- Forward sloping windshield to stream snow easily over and away from windshield
- Dual 125 gallon fuel tanks for up to 12 hours of continuous operation
- Heat treated 110,000 lb steel frame rails with Grade 8 bolt fasteners
- Options include air conditioning, deluge system, heated windshield, heated wipers, side window wipers, am/fm radio and more

ENGINES

- Caterpillar C13 475 HP electronic control turbocharged diesel engine for chassis and ribbon drive
- Snow blower impeller: Caterpillar C18, 700 HP, electronic control turbocharged diesel engine

STEERING

- Integral gear two wheel front steer standard
- Optional electronic four wheel steer allows 2-wheel front steer, 4-wheel coordinated, 4-wheel crab, and independent joystick control of rear axle. Joystick rear steer is independent from front axle control
- 164 inch wheel base with 35 degree cramp angles on all drive steer axles standard for tight turning circles
 - 60 ft wall to wall turning diameter with 18 ft broom and 4-wheel steer
 - 74 ft wall to wall turning diameter with 24 ft front plow and 4-wheel steer.

SUSPENSION

- Tapered spring suspension for smoother ride and increased driver control

TIRES & WHEELS

- 445/65R22.5 Load Range L traction tread front and rear
- Aluminum wheels standard

TRANSMISSION & TRANSFER CASE

- Allison RDS4000 6 speed automatic
- MB Torque Flow single speed transfer case featuring Eaton Tru-Trac differential, automatically directing torque to axle and tire with best traction
- Helical gears for long life, and positive smooth torque transmission
- Gearing combination provides sufficient torque to:
 - spin tires on dry pavement if chassis blocked in place
 - provide full speed range with no t-case shifting required with no t-case shifting required

"In the interest of continuous product improvement, MB reserves the right to change specifications without notice"

