

MB5

Runway clearing

When it comes to airport multi-tasking snow removal, the MB5 is the industry standout. This versatile custom cab forward single unit chassis pushes a heavy duty, front mounted plow and finishes airport clean-up with a mid-mounted broom equipped with forced air blowers between the axles. The MB5 offers superior maneuverability with a remarkably small turning circles.

Highlights

- **Single frame design** eliminates the undesirable whip action of articulated frame vehicles
- **Superior maneuverability** with a remarkably **small turning circles**
- Tapered spring suspension assures a **smoother ride** than conventional springs and **increased driver control**
- Drive train assures the **most efficient use of vehicle power** with full time all-wheel drive with a full locking center differential, and a lockable controlled traction differential at each axle
- **Electronic automatic traction control**

Your benefits

- A clearing width of up to 18 ft. allows you to **clear areas efficiently** with just a small fleet and minimal manpower
- The high working speed allows **fast clearing without compromising on reliability**
- The electronic traction control provides **operator safety and performance** in the harshest of conditions
- The wall to wall **turning circle of 86 feet** allows you to **clear areas very efficiently**

Performance features

Clearing process

The MB5 combines three steps into one single operation and brings your runway quickly back to concrete. Whereas the snow plow clears the majority of the snow to the side, the brush clears the remaining snow and slush while the air blower unit generates a powerful air flow to remove any remaining moisture.



Snow plow

Clean and aggressive clearance is achieved with the MB P5000 Series airport snow plows. These are designed for fast snow clearance at airports and offer outstanding performance with optional straight or flared configurations.





Sweeping unit

The hydraulically-driven brush is mounted to a supporting frame and suspended via a parallelogram lifting system, so that it rests on the surface regardless of vehicle movement and uneven ground. The brush's automatic and stepless sweeping pattern adjustment is carried out hydraulically and determined by the height adjustment of twin castors. During operation, the brush speed is adjusted automatically to suit the driving speed and shown on the control panel's display. A long brush service life is possible – thanks to auto-pattern brush adjustment system. Supported by four Vertical raising caster struts provide vertical lift broom head for consistent deflector angle as broom wears. Integral broom hood shaker to remove accumulated snow off the broom. The brush is available in lengths of 18 ft, 20 ft or 22 ft.







Blower unit

The blower unit of the MB5 is located directly behind the sweeping unit. The blower removes any remaining water and slush from the clearing area at air speeds up to 410 mph, ensuring optimum friction values and better braking action on runways. The blower is driven hydraulically by the auxiliary engine via a variable displacement pump.



Drive

The MB5 is driven be two 496 HP electronic turbocharged T4F EPA emission certified diesel engines. One drive engine is utilized to power the ground drive system paired with Allison RDS 4000, 6 speed transmission for unmated reliability and performance. The second 496 hp diesel engine is utilized to hydraulically power the broom and air blowers.

Motion control

State-of-the-art control technology is an important step in the safe and efficient clearing of airport operation areas. Logical and intuitive menu navigation and automatically controlled processes help to support drivers by ensuring that concentration remains focused on the clearing operation. The display indicates the operating hours engine speed, brush revolution speed and blower performance. The display also provides a comprehensive diagnostics.





Service concept

Preventive maintenance is made simple with accessible filters and fluid drains. Additionally, the optional auto-lube keep your pivot points greased and ready for the next snow event.

Related products

MB5C

Runway clearing



MB2

Runway clearing



Technical data

	MB5	MB5E
Sweeping unit		
Brush length	18‘ / 20‘ / 22‘	18‘ / 20‘ / 22‘
Number of cartridges / brush material / diameter	Cassette style steel, poly, and alternating Ø 46“	Cassette style steel, poly, and alternating Ø 46“
Ring brush / brush material / diameter	Wafer style steel, poly, and alternating Ø 46“	Wafer style steel, poly, and alternating Ø 46“
Working speed		
Working speed up to	45 mph	45 mph
Drive system - ground drive engine		
Motor type	Caterpillar C13B	Caterpillar C13B
Number of cylinders	6	6
Exhaust emmission	U.S. EPA Tier 4 Final	U.S. EPA Tier 4 Final
Performance	496 HP	496 HP
Torque	1,674 ft-lbs	1,671 ft-lbs
Fuel tank	150 gal	150 gal
Working hours, depending on the operating conditions	12 h	12 h
Drive system - auxiliary engine		
Motor type	Caterpillar C13B	Caterpillar C13B
Number of cylinders	6	6
Exhaust emmission	U.S. EPA Tier 4 Final	U.S. EPA Tier 4 Final
Performance	496 HP	496 HP
Torque	1,671 ft-lbs	1,671 ft-lbs
Fuel tank	150 gal	150 gal
Working hours, depending on the operating conditions	12 h	12 h
Optional sprayer		
Filling volume	–	1,250 gal
Spraying width	–	22‘
Distribution system	–	Spray nozzles
Optional spreader		
Filling volume	–	5 yd^3
Spreading width (solid) approx.	–	60‘
Distribution system	–	Dual spinner
Dimensions		
Total length	48‘ 6“	59‘ 6“
Length without Snow plow	39‘ 8“	50‘ 8“
Height	11‘ 11“	11‘ 11“
Max clearing width at 32°	20‘	20‘
Dimensions plow		
Plow width	20‘ / 22‘ / 24‘	20‘ / 22‘ / 24‘
Plow height	50“	50“
Cutting edge	steel / poly / rubber / carbide	steel / poly / rubber / carbide
Plow hitch style	hands free	hands free
Moldboard style	straight / flared	straight / flared
Weights		
Total weight	54,500 lbs dry weight	71,120 lbs dry weight

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