

High torque broom shaft drive hubs and no bounce cores



- Dual end drive for efficient power distribution
- Hardened steel components with keyed tapered hubs for tight connection...**no vibration**
- Dynamically balanced cores for **no broom bounce**
- Replaceable core drive sprockets

Clean design engine package and enclosure



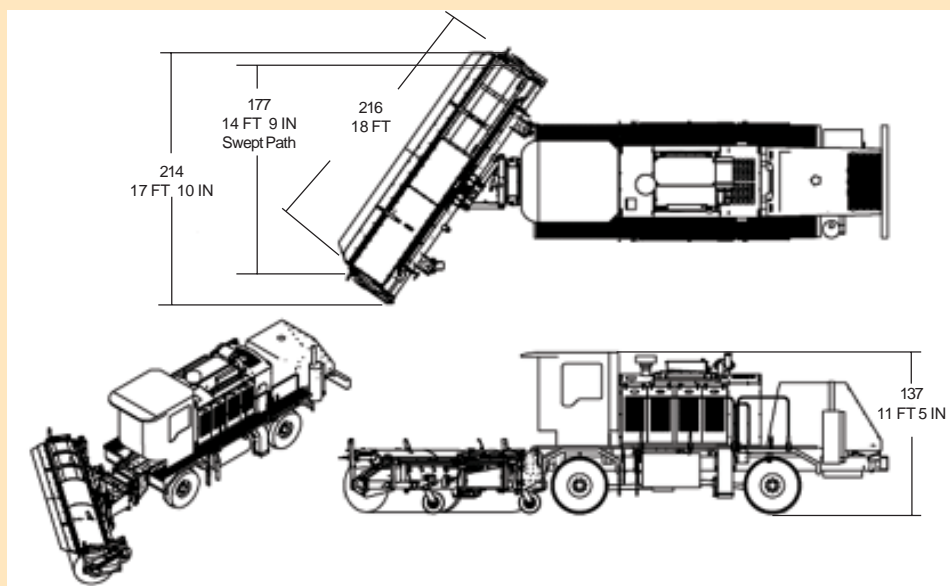
- Outside: Streamline. No "add ons"
- Air ducts retract within chassis tire width
- Inside: Everything in its place with room to work
- Radiator, charged air cooler, and hydraulic cooler up top out of the way
- Filters and maintenance items to outside for access
- Pumps easily accessible and removable
- Pressurized to keep clean and snow free

Simple, electrical control system



- CAN (Controller Area Network) serial bus systems..
- Microprocessor controlled . . .no relays to fail.
- Flexibility in design . . . ability to monitor, diagnose, and control multiple functions.
- Camera systems. (Optional)
- Automatic pattern adjustments. (Optional)

Typical Layout (18' Broom Shown)



From an engineering, performance and reliability viewpoint the M-B broom is the best on the market and we will put our product up against any competitor's product in any performance comparison.

There is a difference.

M-B Companies, Inc. will stand behind our equipment and will support your efforts in addition to continuous product improvement. Please see our website where a history of our **100-year-old tradition** is described.

See "Innovative Options" brochure for more enhancements for M-B brooms

M-B Companies, Inc.

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Brush Replacements and Administration**
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In the interest of continuous product improvement, M-B Companies reserves the right to change specifications without notice. (04/07)



4600-FMD-HP3

Front Mount Dedicated Runway Brooms



*Pure Performance From The
Highest Performing Runway Broom*

4600-FMD, Front Mount Dedicated Runway Brooms

Proven and tested for the highest snow moving capabilities
Confirmed by engineering test data



Way above all standards

- Integrally mounted on an Oshkosh Truck "H" series chassis
- M-B auxiliary engine package, broom head and air blower
- Standardization and modular design of proven sub assemblies and components for reliability and "in stock" usage. "Out of the box" start-ups
- Quality engineered: clean, simple, and battleship design with "Continuous Product Improvement"
- Dynamically analyzed for no broom bounce
- 14', 16', 18', 20', 22' broom length options
- 46 inch diameter dual end drive broom head
- 450 MPH @ 22,800 CFM air blower
- Engineered to address all four performance criteria:
 1. Torque on the broom shaft
 2. Snow control
 3. Chassis handling
 4. Bristle presentation to the surface being swept

Four broom power packages available

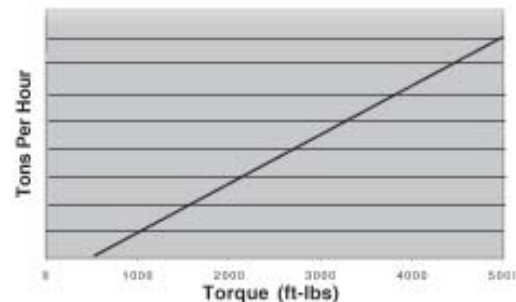
Model	Engine	RPM	Available Torque
HP3	CAT C13 475Hp	525 rpm	4828 Ft-Lbs
HP2	CAT C13 475Hp	528 rpm	3117 Ft-Lbs
385	CAT C11 385Hp	477 rpm	2656 Ft-Lbs
300	CAT C7 300Hp	501 rpm	2656 Ft-Lbs

✓ **TORQUE** moves snow which allows you to operate in deeper and heavier snow... faster

✓ The more available **TORQUE** you have, the more snow you can move

✓ Up to 40 MPH depending on condition

TORQUE = Tons per Hour



Free floating, shock absorbing, weight transfer broom hitch for improved chassis handling



- Active hydraulic cylinders transfer approximately 65% of the broom weight to the chassis for **improved chassis handling...** traction for steering, cornering and braking. Like putting sand bags in your truck in the winter.
- Cylinders act as shock absorber. Low friction bearings allow broom to float separate from the chassis, so loads and bounce from the chassis are not induced to the broom head... **improved bristle presentation and no broom bounce, up to 40 MPH.**
- Less weight on casters means fewer casters and less maintenance.

Free floating broom oscillation system for side to side tilt independence



- Three point low friction assembly separates the broom head from the chassis in the tilt direction allowing broom to float for **superior bristle presentation** over surface irregularities.
- Up to 10" surface variation at casters from chassis
- Maintains consistent brush pattern when swung left and right

Dual arm swing system for uniform loading



- Swing 35° left or right for 16% increase in swept path over 45°. **Larger path = higher performance.**
- Unlike single center pivot, center of gravity of broom head remains approximately on chassis centerline... **Uniform loading.** Improved chassis handling
- Four pivot points for improved load distribution... wide load path from broom head to hitch

No shimmy, low maintenance caster wheel assembly



- Simple spring-loaded automotive type disk brake to **prevent caster shimmy** at all sweeping speeds.
- Set it and forget it... **less maintenance**
- Since weight transfer, less caster tires required