

**MASS ACCUMULATION. MAJOR FRUSTRATION.  
CLEAR IT ALL.**



## H-SERIES XF BROOM

The Oshkosh® H-Series™ XF Broom is built for the ultimate in performance and innovation. Optional automatic functions make easy work of airport snow removal and save transition time at the end of the runway. Easy access to maintenance checkpoints and electrical components simplifies serviceability and maximizes uptime. This, along with unsurpassed visibility from the H-Series cab, ensures nothing gets in the way of your performance.

**TAKE BACK THE RUNWAY.**

### PERFORMANCE FEATURES

#### Heavy-Duty Construction

- High-performance broom for high-speed snow removal
- 2010 EPA Certified Cummins ISX 12 drive engine, up to 500 hp
- QSX 11.9 Tier 4i EPA compliant broom engine
- Active weight transfer option keeps weight on the front axle for improved overall handling of the chassis and broom
- Proven Oshkosh® mechanical cooling system

#### Oshkosh Command Zone Broom Control

- Optional Oshkosh Smart Pattern system compensates for bristle wear to maintain consistent pattern
- Self recognition systems know when brooming occurs
- Optional ground speed control adjusts broom rpm based upon chassis speed
- Configured to fit each airport

#### Smart Design

- 46 in. (1168 mm) diameter broom available in 18, 20 and 22 ft. (5.5 m, 6.1 m and 6.7 m) lengths
- Interactive display with integrated joystick
- External broom positioning system located for safer, easier broom setup and maintenance
- Simple hydraulic system features clean hose routings and single point access for filter replacement
- Simultaneous multi-function broom operations allow broom to lift and rotate at once, reducing transition time at the end of the runway
- Electronic broom modules and components grouped in one easily accessible location

# INNOVATIVE. EFFECTIVE. THE H-SERIES XF BROOM.

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PRODUCTS

**H-SERIES  
XF BROOM**

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\*Versions are available with rear axle disconnect, bevel gear center differential with driver-controlled lock or automatic (Dorr-Miller) differential.

## CHASSIS

### Front Axle:

- Oshkosh® Model 27K, single reduction with special heat treated alloy steel shafts, driver-controlled traction differential and Oshkosh cage ring type steering ends

- 6.17:1 ratio

### Rear Axle:

- Eaton 17427, full floating, single reduction with special heat treated alloy steel shafts and driver-controlled traction differential

- 6.14:1 ratio

### Air Brakes, Parking and Emergency:

- Secondary emergency system – modulated split type
  - Auxiliary air inlet, left side
  - Quick drain lanyards on all tanks

### Brakes and Service:

- Dual system, air operated mechanical
- Electronic antilock brake system (4S4M)
- Compressor – 15.7 cfm

### Standard Accessories:

- National Standard Plus air ride driver seat, right of center
- 55,000 BTU heater/defroster
- Digital climate control
- 12V power outlet (1)
- Cup holders (2)
- Electronic engine controls with on-board diagnostics integral with Oshkosh Command Zone™ system
- Electric remote control heated West Coast type mirrors
- Fresh air type heater and defroster
- LCD dash display
- Light bars
- Quad electric windshield wipers mounted above windshield with intermittent speed control
- Side window defrosters
- Tilt/telescoping steering wheel
- Windshield washer, 6 quarts (5.7 L)

### Instrumentation:

- Oshkosh Command Zone LCD dash pod on steering column
- Chassis and blower head functions and icons

### Equipment:

- Dual 125 gal. (473 L) fuel tanks
- Full catwalks
- Heated fuel/water separator
- 1-piece molded fiberglass tilting engine cover, carrier engine

### Drive Engine:

- Cummins ISX 12 L in-line 6 cylinder, 4 cycle
- Displacement – 729 in.<sup>3</sup> (11.9 L)
- Horsepower – 350 @ 1,800 rpm
- Peak torque – 1,350 lbs.-ft. @ 1,200 rpm
- Governed rpm – 2,100

### Electrical System:

- Alternator – 200A, chassis engine driven
- Lighting and starting – 12V each
- Battery – (4) 12V, 950 CCA each @ 0°F (-18°C), 3,800 CCA total

### Frame:

- Single formed channel made of carbon manganese steel, heat treated
- Yield strength – 120,000 psi (827 Mpa) minimum
- RBM – 2,818,000 in.-lb. per rail
- Construction – Grade 8 flanged bolts and flanged locknuts

### Lighting:

- Cab-mounted headlights with turn signals
- Clearance and marker lights to comply with federal regulations
- Fender-mounted headlights and turn signals
- Roof-mounted strobe light
- Dual stop, tail, turn signal lights (LED) at rear

### Steering System:

- Sheppard XD120 integral hydraulic power gear
- Chassis hydraulics warning system – low level/high temperature

### Suspension:

- Front – Hotchkiss, semi-elliptic spring
- Rating – 27,000 lbs. (12,247 kg)
- Rear – Hotchkiss, semi-elliptic spring
- Rating – 18,000 lbs. (8,165 kg)

### Tires: 395/85R20, 20 ply

### Transfer Case\*:

- Oshkosh 55000 Series, rear axle declutch
- 2.66:1 and 0.98:1 ratios

### Transmission: Allison® Rugged Duty Series, 4-speed electronic

### Vehicle Ratings at Axle Hubs:

- Front – 27,000 lbs. (12,247 kg)
- Rear – 23,000 lbs. (10,433 kg)
- Total – 50,000 lbs. (22,680 kg)

### Wheelbase: 164 in. (4,166 mm)

### Wheels:

- Steel disc
- 20 x 10 in. (508 x 254 mm)

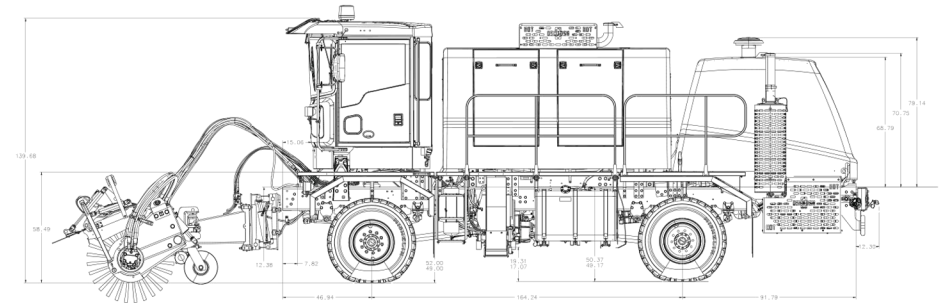
## OSHKOSH BROOM AND POWER TRAIN

### Pump Drive:

- Funk 59000
- Lubrication – pressurized system

### Broom Engine:

- Cummins QSX 11.9, in-line 6 cylinder, 4 cycle
- Displacement – 729 in.<sup>3</sup> (11.9 L)
- Horsepower – 385 @ 1,800 rpm
- Peak torque – 1,350 lbs.-ft. @ 1,400 rpm
- Governed rpm – 2,250
- Heated fuel/water separator



### Broom Core:

- 18 ft. (5.5 m) wide
- 50/50 poly/wire SIB cassette bristles
- 46 in. (1,168 mm) diameter

### Head:

- 2 180/70 R8 casters
- 35 degree swing angle
- 525 rpm with 4828 lbs.-ft. of available torque at the broom shaft
- Oshkosh weight transfer system
- Oil bath core center bearing
- Broom oscillation of 8 degrees

### Controls:

- Oshkosh Command Zone LCD dash pod on adjustable arm
- Oshkosh SmartPattern for automatic pattern adjustment (optional)
- Ground speed control (optional)
- Integrated joystick controls

### Cooling System:

- Radiator core (auxiliary) – fin and tube type with deaeration system
- Mechanical fan clutch – temperature controlled clutch
- Silicone radiator hoses
- Spin on coolant filter

## BROOM OPTIONS

- 20 and 22 ft. (6.1 and 6.7 m) head widths (4 casters)
- Cassette style bristles
- Wire or poly bristle options
- Snow shedding hood
- Ether start
- Auxiliary Engine Oil Heater
- Broom head vibrator
- Broom engine – QSX 11.9 L with up to 500 hp, 1,600 lbs.-ft.
- Dual forced air blowers – 23,040 cfm @ 410 mph (660 k/ph)

## CHASSIS OPTIONS

### Accessories

- Integral A/C
- Heated windshield
- Side window wipers

### Drive Train:

- Cummins 385, 425, 500 hp engines
- 29K front axle rating
- Oshkosh ALL STEER® electronic all wheel steering system (23K, and 26K rear only)
- Driver controlled and automatic lock/unlock transfer case

### Electrical System:

- HID and other lighting packages
- On-board battery charger (20A self regulating)
- 270A alternator

### Frame and Chassis:

- Single side fuel fill
- Centralized side drain kit