

4600-TTOWV Tracking Tow Airport Broom, 300 HP



Shown with draw bar chassis connection, fifth wheel connection optional

- 18,000 pound steering axle with ABS brakes controlled by broom to chassis connection
Closed loop hydraulic controlled steering system with automatic drift control and provisions for centering and disengaging the axle steering system by the operator. Optional fifth wheel or draw bar chassis connection
- Multiple towing chassis configurations of adequate size, axle and horsepower ratings
- Retrofittable to existing chassis
- Towing chassis determines turning radius...Broom always follows
- 46" diameter. 14, 16, 18 and 20 foot broom lengths
- Caterpillar C7, 300HP, electronic turbocharged diesel engine, 7.2 liter
- 501 rpm broom with 2656 ft-lbs of available torque at the broom shaft at 5075 psi maximum working pressure
- Single impeller forced air blower. 17,300 CFM @ 315 MPH
- 100 gallon fuel tank for 12 hours of operation
- Operator friendly, cab portable operator's control box, microprocessor CAN bus controls with MDC (Monitor, Diagnose, Control) color screen display. Optional integrated controls with plow using CAN joy stick.
 - Optional fully functional MDC controls in broom engine enclosure
- Hydrostatic drive, infinitely variable speed pumps and fixed displacement motors for broom head and blower
- Free floating, shock absorbing, active weight transfer broom head hitch for superior broom pattern control, improved tractive effort, braking, steerability and overall handling of the broom chassis
- Dual swing arms with four pivot points which ensure the weight and location of the broom head remains approximately on the carrier vehicle center line regardless of the position of the broom head
- Broom oscillation of 8 degrees (+4, -4) permitting broom head tilt independent of chassis to compensate for surface variations to minimize brush pattern variation during operation
- Power transmitted to the broom core via gearboxes utilizing keyed tapered hubs to prevent any looseness in the connection for vibration concerns. Molded urethane drive cogs for torque transmission
Hardened steel pilot plates and core sprockets to support the radial loads
- Entire broom head vibration analyzed as final QA with report on vibration spectra (FFT plot)
- Optional non-steering axle: dual wheel 15,000 pound capacity for electrical brakes
Optional 18,000 pound with air brake system. Also optional fifth wheel, direct pintel, or front nose wheel chassis connection with non-steering axle
- Optional automatic pattern adjustment, brush RPM ground speed controlled, and rear camera system among others