

Size DOES matter when you move a Windmill Blade!

BladeMaster. At last, a Windmill Blade Trailer with the most advanced trailer steerable system available in North America today.

BladeMaster - The Art of Transporting Turbine Blades

BladeMaster is a one-of-a-kind trailer designed to transport wind turbine blades easily and effectively. BladeMaster is built around the unique Integral Active Steering Metrics (ASM) System designed by VSE, a leading-edge trailer systems engineering firm.

The custom-made ASM technology is a fully-dedicated, microprocessor controlled, electronic overhydraulic steering system. A unique, Patent pending, sensor embedded in the king pin automatically sends signals to the trailer axles allowing for intelligent steering independent of the truck. Electronic controls steer the trailer axles in a fixed ratio to the truck turning radius.

BladeMaster is:

Lighter: enabling transport of larger blades or twin blades

Safer: utilizing proprietary neutral axis fail-safe hydraulics

Adaptive: custom software to adjust metrics as required

Cost Effective: designed for the best weight-to-strength ratio in the industry



"The North American market experienced the strongest growth globally in 2007, with more than 5,200 MW of new wind energy capacity installed in the United States alone."

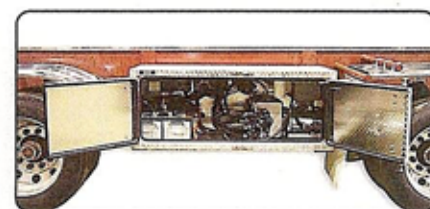
"The Global Wind Energy Council today confirmed its earlier estimate that over 20,000 MW of wind power was installed in 2007, led by the US..."

Physical Mechanical vs. Electronic/Hydraulic
 Elimination of mechanical connections between successive axles
 Less weight, less wear & tear, less maintenance
 Fewer parts than conventional, mechanical steerable system = less repair costs

Independent of Truck
 ASM has complete 'system autonomy' and is independent of the truck
 ASM is an intuitive, fully dedicated, micro processor controlled, hydraulic pneumatic steering system
 The signal is automatically sent to the trailer axle; the driver does not need to do anything - it's easy!

BladeMaster design allows the trailer to extend to approximately 130 feet, ideal for transporting windmill blades.

All BladeMaster axles, suspensions, wheel ends, hubs and wheels are manufactured in North America. The VSE ASM technology is designed in Europe.



Enhanced Over Ride Steering

- Hand-held unit remotely operates the ASM
- Overrides the fixed ratio king pin sensed steering and allows for tighter turning radius than traditional transportation (Windmill Blade) trailers
- Emergency back-up of steering

Built-In Diagnostic System

- Built into the rear axle component box
- Easily used interface between driver and steering system
- Displays Automatic Calibration Routine results, diagnosis and driving parameters

Isolated Battery Power

- Electrical Power Pack charged by the truck's battery; no other source of power is required
- Boosts voltage up to 24 volts without modification of the existing circuit on the alternator
- Protection system eliminates drainage from the truck battery

Keep your drivers safe

Field Proven in Winter Conditions

The Integral Active Steering Metrics (ASM) system is used extensively by Daimler Chrysler in its Mercedes trucks in Europe. The ASM system employs temperature adaptation mechanics that has proven its strength under harsh winter conditions and mountainous, curvy roads.

Your driver's dream come true.

RSS - Roll Stability Support

BladeMaster is safer on the roads, under load, than other trailers. BladeMaster can continuously drive around corners safely, without a wide turn radius, resulting in more stability. With available Roll Stability Support system, BladeMaster electronics can be activated for the anti-roll feature; the ultimate in road safety.

Your insurance company will love you for this feature.

Controlled Braking

BladeMaster brake system has an immediate response time. As soon as the brake pedal is applied a pressure sensor transmits an electronic signal to a receiver at the axles ensuring correct ABS braking. The system has redundancy safety against air pressure delays to the rear axles. Equipped with a 4S2M Meritor-Wabco ABS supported by an enhanced ECU.

Never stop short.

Fail Safe Modes

Highway driving is safer with the BladeMaster and unintentional cornering is a thing of the past. The programmable ASM incorporates an auto center safety feature automatically setting the rear axles "straight" at speeds over 55 km/hour. Conventional steerable simply cannot do this. The ASM technology eliminates unintentional cornering or "fishtailing" often seen with conventional trailers at higher speeds.

Peace of mind for owners and drivers alike.

In the unlikely event of failure or malfunction, the rear axles of BladeMaster's duplicate hydraulic circuit will automatically revert to a neutral axis position and lock straight for safe driving. This is the only system that will not lock the axles in an unsafe angle, leaving your trailer stranded miles from home and unable to function.

Stranded or Safe? Your decision.