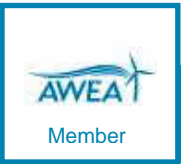


MATERIAL HANDLING FOR WIND TURBINES

To succeed, manufacturers of wind turbines, components, towers and blades have to adopt the most efficient manufacturing processes. They must meet unique material handling challenges. Expensive and fragile, these products need to be handled carefully with equipment specifically designed for lifting them safely.



Bushman AvonTec has designed and built custom material handling equipment for over 60 years. Our innovative thinking and value engineering have created products that have long, safe, productive lives. We can minimize costly product damage with equipment that is designed for the rugged needs and demanding operating environments of wind energy manufacturers.

BLADE HANDLING CARTS



Root carts



Tip carts

Benefits:

- Easily supports in-process blades.
- Allows 360 degree motorized rotation for final finishing or inspection.
- Carts can be secured to the floor or equipped with wheels for transporting blades.
- Pressure pads securely hold any shape blade without damage.

STANDS AND LIFTERS



During fabrication, final assembly, or any other time you need to get under the nacelle safely,

Bushman AvonTec Nacelle Stands are the products of choice. Ruggedly constructed of structural shapes and plate, they provide the strength and security you need to work safely under these heavy loads.



This is a special lifter for picking up nose cones with three blades during the installation of 2.5 MW wind turbines.



PRODUCTS FOR LIFTING AND TRANSPORTING



Grab for lifting and rotating pipe (tower) sections



Hydraulically adjustable spreader beams for outdoor storage



Extra long and extra wide spreader beams for handling towers and blades



Telescoping plate handling magnet beams



1,500-pound hand wheel operated rotating axis grab lifts and rotates machined gearbox parts around their horizontal axis.



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