



Demag's Electric Chain Hoist For Wind Power Generation Station Maintenance

Features and Benefits

Convenient

Safe

Reliable

Easy Installation

Industry Group: Hoist Manufacturers Institute (HMI)



A company, well known to the wind power industry, who installed over 300 units in Grover Texas needed a method of lifting heavy tools and spare parts to the nacelle for maintenance and repair of their Wind Generating Turbines. The problem was they need to lift up to 425 feet. Demag met the challenge and developed a hoist specifically for maintenance of wind power generators.

The hoists are engineered so they can be mounted to beam style jib cranes or portal located within the nacelle.

Lifting products outdoors has many unexpected challenges, such as the possibility of strong winds. Lifting up to 425ft an empty hook will blow and swing back and forth potentially impacting the specially painted surface of the tower. To address this concern Demag provides a protective sleeve around the hook. The extended chain can blow and move the trolley during lifting and lowering, Demag equips the trolley with a lever locking device. Upper and lower limit switches minimize the need for the service technician to concern themselves with damaging the hoist due to over travel.

With such a long lifting height comes a lot of chain and the question of where to store it. Demag has two options for this problem one incorporates a

large flexible chain container mounted from the hoist, the other is a flexible tube which can direct the chain into an unused recess in the body of the nacelle.

This specially designed hoist is built on the foundation of the industry workhorse, the Demag DC-Pro Electric Chain Hoist. The unique design of this hoist incorporates a maintenance cover which encloses the chain lubrication point and power quick disconnect and field adjustable pushbutton which allows the operator the set the pushbutton height with out the need for rewiring.



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