DEMAG

Cranes & Components

Demag DC-Wind chain hoist

Highly efficient solutions for the maintenance of wind turbine installations

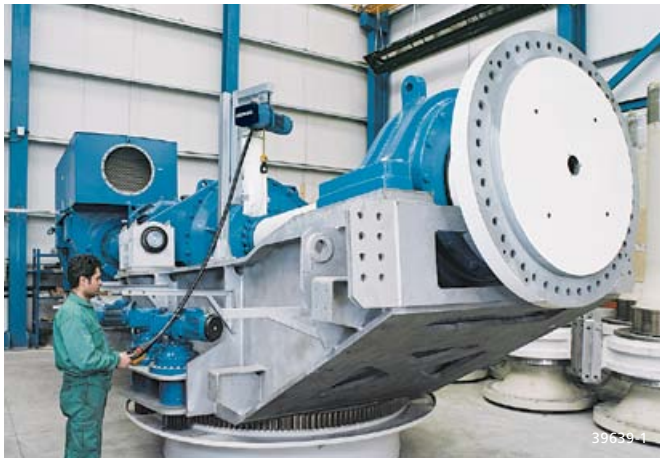
For swift service in wind turbine installations

Wind turbines are designed for high availability to generate power under changing wind and weather conditions. If the system comes to a standstill as the result of malfunctions or maintenance work, power generation comes to a halt. The required spare parts and equipment have to be lifted into the nacelle as quickly as possible.

Here, Demag DC-Wind chain hoists with hook paths of up to 180 m are proven lifting appliances in wind turbine systems. Fitted to slewing jibs, as stationary units or installed on bridge cranes, they transport heavy loads with ease. Thanks to their high lifting speeds, they accelerate the supply of spare parts, thus cutting maintenance work and downtimes to a minimum.

In accordance with the operating conditions, the chain hoists, which can be supplied in several sizes, are fitted with appropriate chain collector bags. Alternatively, the chain can be led through a tube into a separate container. Safe and reliable operation over long lifting paths is ensured by cut-off of the lifting and lowering motions in the highest and lowest hook positions. The locking device, which is fitted as standard, secures the trolley against any unwanted travel caused by movements of the wind turbine.

The Demag DC-Wind chain hoist, which is specially designed to meet the requirements of the industry, is one of the hoists most frequently used by leading manufacturers of wind energy installations.



The low-headroom design offers special benefits in the often restricted space available in the nacelle

Lever with single-hand operation to lock the trolley

Sheet-metal chain collector boxes for long chains and/or special requirements

Convenient operation

- Fast main lifting motion and precise travel at creep speed
- Optimum handling thanks to compact, ergonomic control pendant and flexible control cable
- Compact dimensions due to low trolley design
- Practical storage compartment for the control pendant on the outside of the chain collector bag (optional)
- No damage to the inner or outer surface of the tower by lifting motions thanks to a protective sleeve on the hook fittings (optional)
- Continuous and, therefore, efficient operation also at large lifting heights thanks to motors with 100% cyclic duty factor.

High safety standard

- The brake-coupling system ensures that the load is held securely in any operating situation and prevents the load from dropping
- The corrosion-protected brake with IP 55 enclosure is arranged beneath an electrical equipment cover that also features the same rating
- Improved safety due to operating limit switches for the highest and lowest hook positions
- Safe switching and operation due to 24 V contactor control
- Chain collector bag additionally attached to the trolley
- Trolley can be simply locked with a handle.

For harsh climates

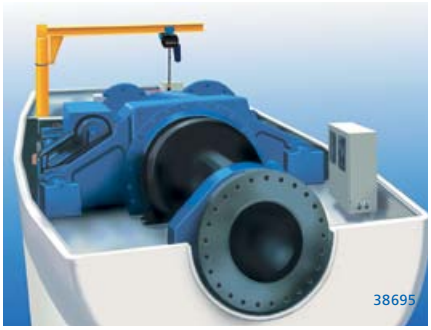
Special designs are also available for various installation locations and weather conditions, including

- offshore applications
- cold-climate versions
- installation at high altitudes.

Please contact us if you have any questions.

Fast to install and simple to maintain

DC-Wind chain hoist units can be installed and put into operation in a minimum of time. Their design also makes them particularly easy to maintain.



- Simple installation and service thanks to Plug & Lift connections
- Fast and simple height-adjustment of the control cable without the need for any wiring
- Extremely low wear due to electrical braking and slip monitoring of the slipping clutch
- Gearbox, brake and slipping clutch are maintenance-free for up to 10 years.

Technical data

Load capacity [kg]	Chain hoist type	Hoist speed for 50 Hz [m/min]	Hook path H [m]	Trolleys with frame	Chain dimensions [mm]	Maximum weight [1] RUDC [kg]	Maximum weight [1] Stationary [kg]
125	DC-Wind 2	16/4	≤ 120	2 x RU 3/2	4.2 x 12.2	28	20
125	DC-Wind 5	24/6				33	26
250		16/4					
500		12/3			5.3 x 15.2	43	36
250	DC-Wind 10	24/6	≤ 180	2 x RU 6/2		59	45
500		12/3	≤ 120				
		24/6	≤ 180				
800		18/4.5	≤ 150	2 x U 11	7.4 x 21.2	84	64
1000			≤ 120				
		12/3	≤ 120				
1200	DC 15	16/4	≤ 150	2 x U 11	8.7 x 24.2	155	125
1500		12/3	≤ 120				

[1] Weight without chain.
IP 55 enclosure, 60 % cyclic duty factor. For further information please refer to our brochure 213 605 44 "Demag DC-Pro chain hoist and Demag DCM-Pro Manulift"

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