

Windpower - hoist

light - compact - reliable - safe



Eagle hoist

Lifting to a higher level



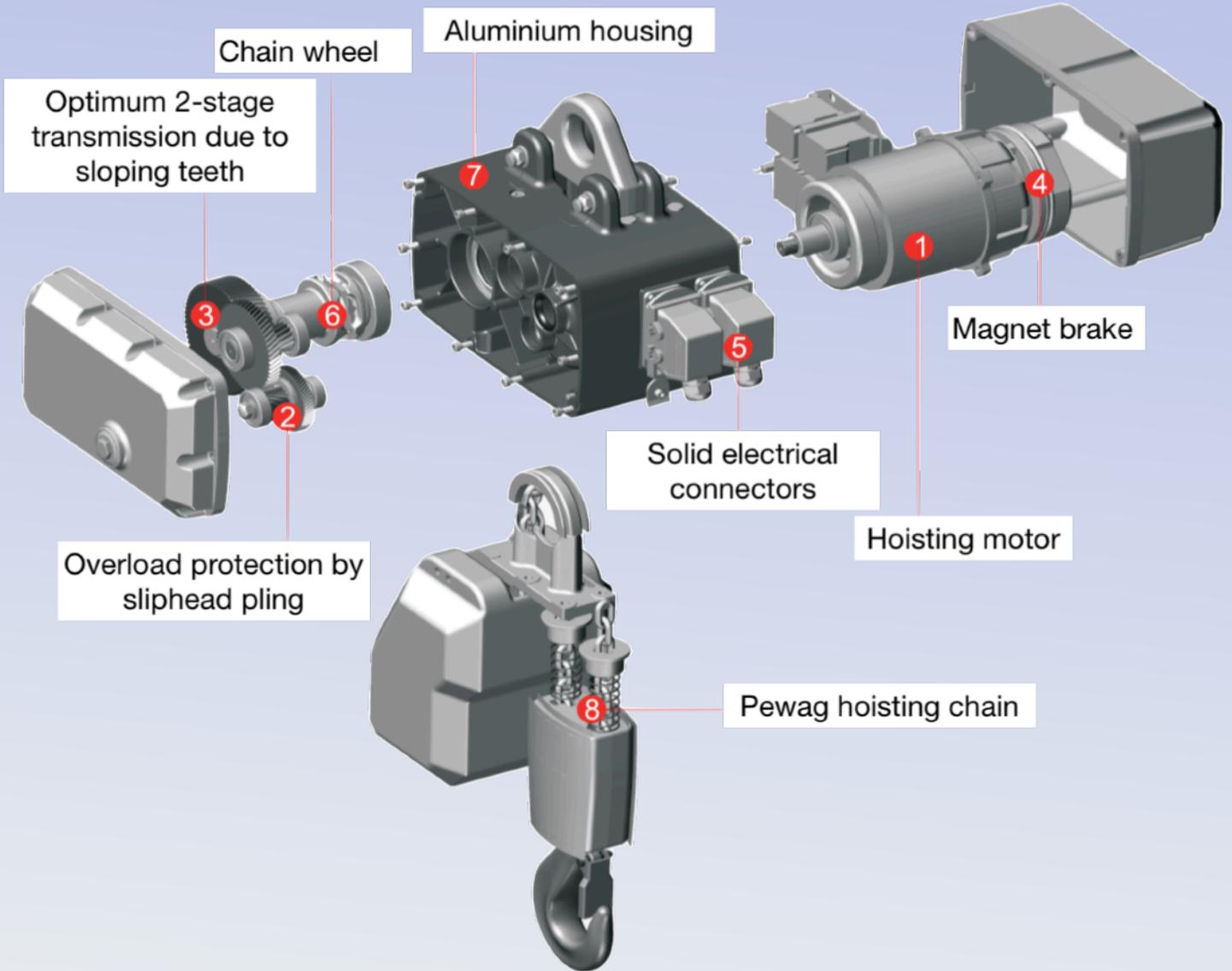
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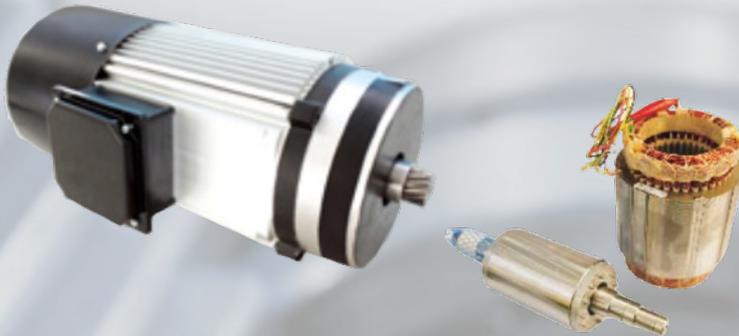
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Compact and light high performance hoisting motor, with a rotation speed of 3000 revolutions per minute. High heads and high efficiency. With a sustained speed and a duty cycle of 60%, which meets the demand for high-frequency use. Protection class IP55 and insulation class F

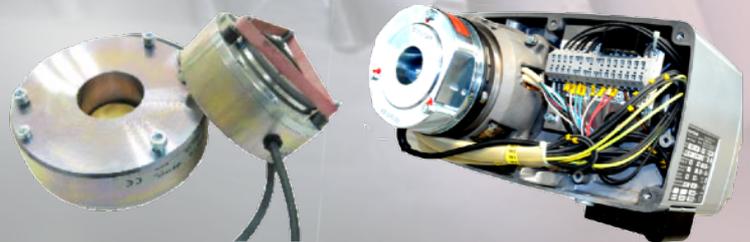
Overload protection integrated in the gearbox up to 1.4 times the safe working load.

Maintenance-free and adjustable overload coupling. Standard adjusted 10% above the workload.



Spiral gear design, with high transmission efficiency and low noise. Hardened gear surface machining. Grade 7 precision of the gears and even higher. Full oil bath lubrication, ultra-low noise level and a long service life.

Electromagnetic asbestos-free disc brake is fitted at the end of the drive shaft. Maintenance free brake disc, which adjusts the brake play automatically. Suitable for 1 million braking cycles. The fully enclosed brake with high-quality protection for harsh conditions. The braking torque is twice as high as the nominal motor torque.



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2 pieces 10 pin connectors with aluminum housing, prevents unnecessary interference. 1 connector for the operating gear with a safe 24 or 48 V voltage. 1 connector for the 3 phase power supply. Also 1: 1 with radio control. Plug and play, handy and efficient.



The housing is made of high-strength, die-cast aluminum alloy, corrosion resistant and well sealed. Special design of the suspension to prevent the housing from being loaded. Solid plastic cover for the motor and relay control, light and strong.

Leading chain wheel design, surface hardening for a quieter and smooth chain guide. Extremely suitable for the most demanding working environments.



High-quality galvanized PEWAG HEO-EN 818-7-T GZN chain with 6-fold safety factor. Provided with a minimum surface hardness of 380 HV. This chain even has a higher surface hardness than the EN 818-7 and ISO 3077 standard, which improves the wear resistance. PEWAG chain license plate (H stamp) H16





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Price list:

- **basic version, fixed suspension**
 - **24V control voltage: relay in the hoist**
 - **fixed operating pear up to 7 m**
- lifting height 75 mtr. : € 2208 / pc
lifting height 120 mtr. : € 2757 / pc

price listed is per piece, orders with larger numbers
50, 100 pieces or more, on request.

Options: surcharge based on the version:

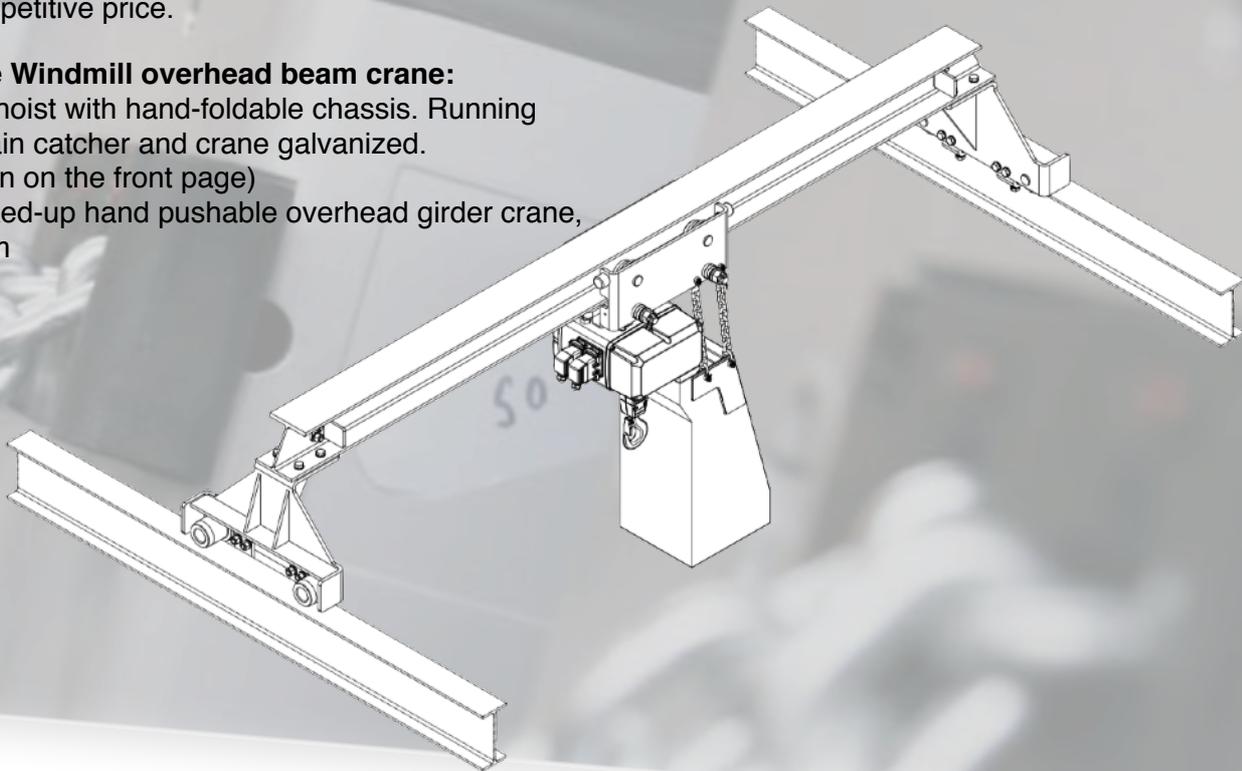
- **Hand pushable undercarriage** : + € 190,-
- **Electrically powered carriages** : + € 381,-
- **Electroplating chassis and chain catcher** : + € 127,-
- **Radio control** : + € 865,-
- **Extra lifting height: up to 138 m lifting height** : + € 128,-

There is a great diversity in wind turbines and they are all constructed slightly differently. We deliver a total concept: all desired crane versions made according to customer requirements. Since we use our own standard crane components for this, we can offer a very competitive price.

Example Windmill overhead beam crane:

1000 kg hoist with hand-foldable chassis. Running gear, chain catcher and crane galvanized.
(as shown on the front page)

With jacked-up hand pushable overhead girder crane,
span: 3 m



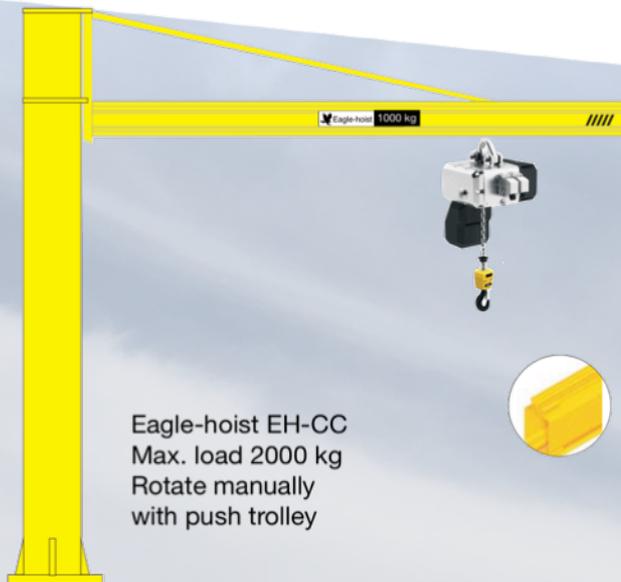
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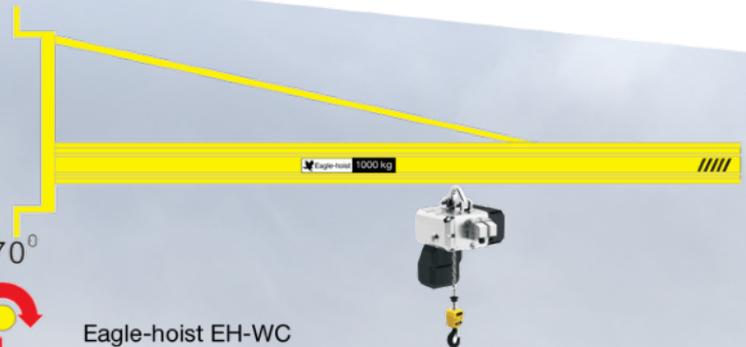
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Eagle-hoist EH-CC
Max. load 2000 kg
Rotate manually
with push trolley



270°



Eagle-hoist EH-WC
Max. load 2000 kg
Rotate manually
with push trolley, option electric



270°



Eagle-hoist EH-EL
Single beam
Max. load 2000 kg
with push trolley



Eagle-hoist EH-DL
Double beam
Max. load 2000 kg
with push trolley

Eagle-hoist EH-MR
Mono rail system
Max. load 2000 kg
with push trolley





Lifting to a higher level

Harmonized standards used:

- | | |
|---------------------------------|---|
| - EN 292 T1 T2 | Safety of machines |
| - EN 60204-1 | Electrical equipment of machines |
| - EN 60204-32 | Rules for hoists |
| - EN 61000-6-4 and EN 61000-6-3 | Electromagnetic compatibility, emission |
| - EN 61000-6-1 and EN 61000-6-2 | Electromagnetic compatibility, noise immunity |
| - EN 954-1 | Safety related components for the control |
| - DIN EN 60034-1 | Electric rotary machines |
| - DIN EN 60034-5 IP | Protection class of the housing |
| - DIN 5684 | Round steel chain for hoists |
| - DIN 15400 and DIN 15401 | Load hooks for hoists |

Applied standards and technical specifications:

- | | |
|--------------|---|
| - IEC 364 | Electrical systems |
| - IEC947-5-1 | Low voltage switches |
| - FEM 9.511 | Classification of drives |
| - FEM 9.671 | Selection criteria requirements for chains |
| - FEM 9.683 | Selection criteria requirements for engines |
| - FEM 9.755 | Remaining lifetime calculation for hoists, safety |
| - FEM 9.751 | Electrically powered series hoist, safety |





Lifting to a higher level

The reliability of an electric hoist that is essential for wind turbine maintenance to support the work of a windmill.

Given the increasing energy shortage and the deteriorating natural environment, there is a growing demand for clean energy worldwide. By EWEA (European Wind Energy Association), it has been announced that the total installation of windmill in Europe energy capacity in 2020 will exceed the 200 GW milestone. Due to the upward production of wind turbines, the electric chain hoist has been developed to meet this unique application. The EH-W electric chain hoist for wind turbines is an example of the perfect combination of operational reliability and safety, reliability and technology, modern design and styling. With features of a compact design, lightweight, high reliability and easy operation. The EH-W electric chain hoist is specially designed for the European wind turbines, but also for the rest of the world. The EH-W chain hoist has a standard hoisting speed of 12 m / min. The EH-W electric chain hoist for wind turbines has been rigorously tested and is already widely used. With an excellent price-quality ratio.

Our chain hoists are made of die-cast aluminum with high tensile force through a precise casting process and extrusion for a thin wall to achieve high strength and low weight in a compact design. The EH-W chain hoist has a separate reducer, the coaxial 2-stage gears of which are lubricated in an oil bath and ensure a long service life. The functionality of overloaded protection is achieved via a powder metallurgically manufactured coupling. The electromagnetic disc brake ensures high torque, smooth, fast and quiet operation.

Our chain hoists have a wide range of applications, in various industries: wind energy, logistics, port and construction industries for hoisting or loading goods, hoisting heavy materials to make work easier or for the repair of large machines. Our electric chain hoists can be operated with a fixed control bulb or with a radio remote control. Fixed suspension or equipped with an electric running gear or hand compressible running gear, whereby flexible and efficient solutions for material handling can be offered.

EH chain hoists are manufactured in accordance with EN standard
Our hoists are highly regarded for their robustness and simplicity, in short top quality with high performance and a very competitive price. The electric hoists of Eagle-hoist are fully designed and manufactured in accordance with the European FEM, EN and Germany DIN standards and the ISO and Chinese GB / JB standards.

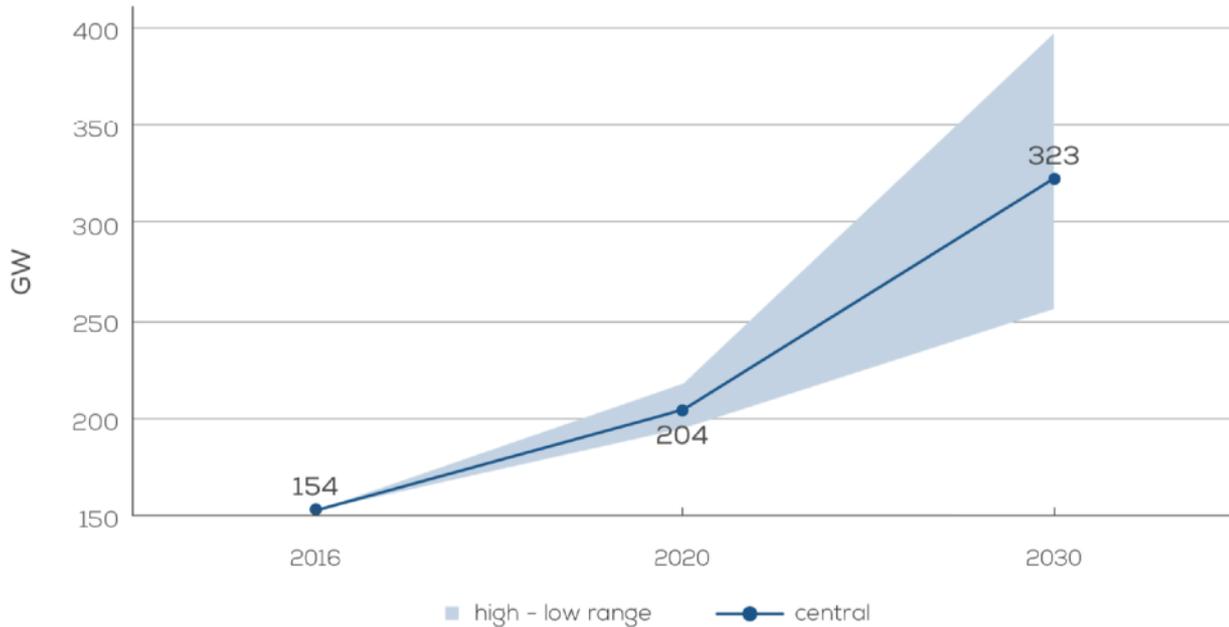
Customization

Ergonomic design and standardization ensure an improved operating experience with considerably lower maintenance costs. The main components of the EH-W chain hoist are designed with minimal maintenance requirements under specified operating conditions and no replacement is required.



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WindEurope 2020 and 2030 scenarios



This report describes three possible scenarios for wind energy capacity installations in 2030 based on the analysis by WindEurope of the potential circumstances that determine the use of wind energy after 2020.

According to the WindEurope Central Scenario, 323 GW cumulative wind energy capacity would be installed in the EU by 2030, 253 GW onshore and 70 GW offshore. That would be more than double the installed capacity at the end of 2016 (160 GW). With this capacity, wind energy would produce 888 TWh of electricity, which corresponds to 30% of the EU's demand for electricity. The wind energy industry would invest € 239 billion by 2030 and provide employment for 569,000 people.

WindEurope's High Scenario is based on favorable market and policy conditions, including the achievement of an EU renewable energy target of 35%. In this scenario, 397 GW of wind energy capacity would be installed in the EU in 2030, 298.5 GW onshore and 99 GW offshore. This would be 23% more capacity than in the central scenario and two and a half times more capacity than currently installed in the EU.

However, in the low scenario there would be 256.4 GW of wind power in 2030, 207 GW onshore and 49 GW offshore, producing 21.6% of EU energy demand in 2030. That is 20% less capacity than in the central scenario.

The report highlights the social and economic effects of each scenario and recommends the policies and other measures required to deploy wind energy to support Europe's technological leadership in the wind.

Bron: WindEurope





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Macro economic benefits of wind energy under WindEurope's 2030 scenarios

