

## Demag cranes

The ideal solution for load handling in wind power installations



## Wind energy – our future

Demag stands for quality, efficiency and reliability at the highest level. Every crane and every component reflects decades of crane expertise and reliability as a partner for the industry.

### **We grow with you**

...as your partner for materials handling in production, storage and logistics: Demag Cranes & Components. You can look after the asynchronous generators, planetary gears and rotor blades, we will take care of your materials handling needs to ensure safe and efficient production. Because: All of the components in your wind power installations have to be transported, stored, lifted and turned reliably and safely at all times.



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We know the special requirements of your business for load handling at the workplace, in material flow and in production and storage applications. Together with you we will find the best solution.



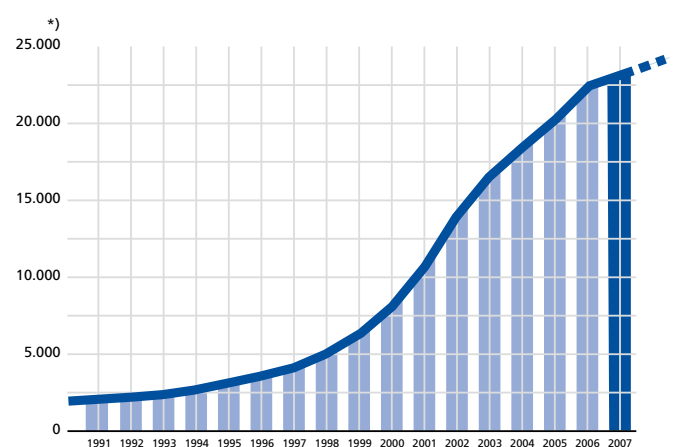
### Heavy loads in any position

Different loads have to be handled in your processes: They connect workplaces, link processes, turn and move products and production equipment. Whatever your needs may be: Demag cranes work quickly, reliably and at all times. Using the appropriate load handling device for every part at any stage of production.

The wide range of Demag cranes enables you to implement and benefit from your improvements in full.

- Complex material flow – the efficient solution:  
**Suspension cranes** for transverse interlinking
- For any building geometry – outstanding flexibility:  
**Single-girder overhead travelling cranes** with rolled steel section or box section girders
- Cost-effective solutions for demanding construction projects – optimum utilisation of the available space:  
**Single-girder overhead travelling cranes** optimised for your building geometry
- For high load and operating requirements:  
**Double-girder overhead travelling cranes** with optimised system rigidity

### Development of wind power



\*) Installed rated output [MW]

# Perfecting production processes

## Outstanding flexibility

Whether buildings or processes are to be linked or expanded, Demag cranes can be ideally adapted to the existing headroom dimensions of the building. Other features include smooth travel characteristics to protect sensitive loads and minimum power consumption thanks to optimum crane design. Easy load handling by means of state-of-the-art Demag cranes minimises mistakes and damage. Your process costs are optimised and you keep an eye on your investments.

## Secure material flow

It is essential for components to be delivered from other plants and sub-contractors at the right time to meet process requirements. This means that loads have to be transferred between workplaces and production lines without any risk of injury or damage. Demag cranes ensure smooth just-in-time production by interacting with the necessary mechanical and electronic interlocks at all levels. To ensure a reliable material flow, meet deadlines met and fill orders.



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### Sensitive load handling

Generators have to be lifted, transported and deposited with great care to prevent damage in production.

This requires state-of-the-art cranes:

Frequency-controlled drives for smooth acceleration and low-sway operation. Radio remote control for access in difficult positions. Semi or full automation of individual processes or entire sequences. Automatic equipment is sometimes more reliable.



## Optimum workplaces

### Use the power

Maximum load capacities are required for handling pre-assembled parts or very heavy components. In our example this is done in two production lines. Loads are also transported on a second level, providing simultaneous handling of very heavy gearbox parts. This enables the parts to be supplied and brought into the right position at the same time.



### Long wings

Sensitive goods: After the wings have been shaped and baked, the highly sensitive unfinished units have to be transported to the finishing line. The crane operator controls two cranes in tandem, which ensures smooth handling between shaping, baking, intermediate storage and finishing of the wings. A process-optimized control concept such as this reduces travel paths, saves interfaces and time and avoids damage.



## Cranes at no cost – keeping an eye on investments

### Reliable assembly

Benefit from the advantages of proven Demag engineering to improve efficiency in your production operation:

- Compliance with deadlines in production
- Working without mistakes and fatigue
- Handling without any damage
- Reduction of throughput times
- Quality assurance
- Easier final assembly and inspection
- Loading according to schedule



### Do you want to construct a new building...

Plan your new production building in good time with the right advice for the design and implementation of the most favourable production flow, so that machines are arranged according to the material flow and construction work can be adapted to your production requirements. You will find that a cost-effective building design with less enclosed space or surface area can quickly save 15 to 20 % of the construction costs.

### ...or will you use existing buildings?

You want to adapt, rearrange, extend or optimise your plant? Processes have to be redefined, ergonomic aspects have to be considered. The costs for organising production have to be cut: handling on multiple levels, no waiting times, quick access, short throughput times, all this means optimised processes. However, this is also possible in existing buildings.

For further information regarding maintenance and repair of your wind power generation installations, please refer to our "Demag DC-Wind chain hoists" brochure – ident. no. 213 069 44.

**Demag Cranes & Components GmbH**

P.O. Box 67 · 58286 Wetter / Germany

Telephone +49 (0) 2335 92-7919

Telefax +49 (0) 2335 92-2339

E-mail [standardcranes@demagcranes.com](mailto:standardcranes@demagcranes.com)

[www.demagcranes.com](http://www.demagcranes.com)