

DRIVING EFFICIENCY IN THE WIND INDUSTRY WITH HYDRAULIC TOOLS

1 MANUFACTURING

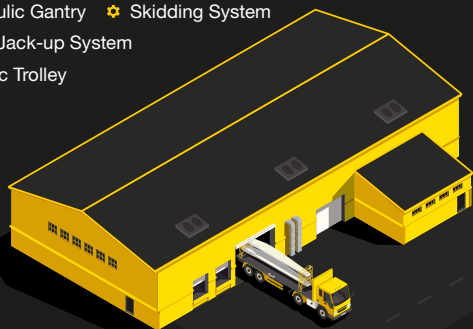


The world's longest wind turbine blade is

123m LZ Blades China

Manufacturers use hydraulic equipment to gain a competitive edge when machining and handling wind turbine components.

- ✦ Orbital Milling Machine
- ✦ Machine Skates
- ✦ Hydraulic Gantry
- ✦ Skidding System
- ✦ Cube Jack-up System
- ✦ Electric Trolley



2 TRANSPORT

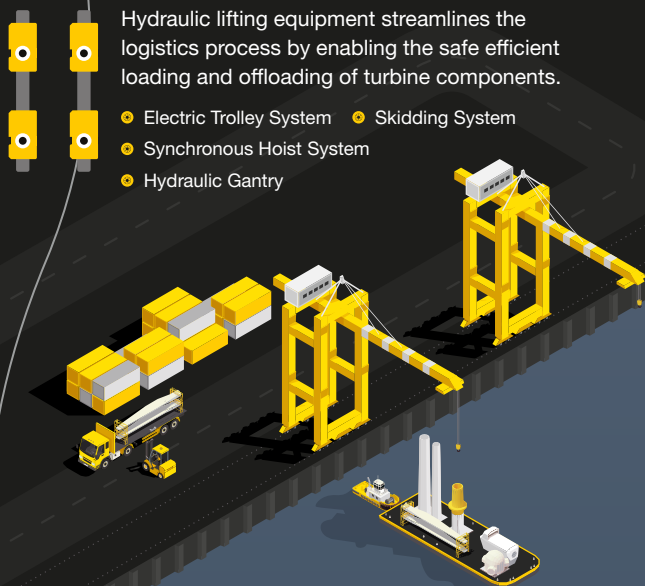


An offshore transition piece weighs approximately

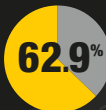
500-tons

Hydraulic lifting equipment streamlines the logistics process by enabling the safe efficient loading and offloading of turbine components.

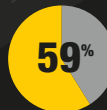
- ✦ Electric Trolley System
- ✦ Skidding System
- ✦ Synchronous Hoist System
- ✦ Hydraulic Gantry



4 MAINTENANCE



Of all turbine failure causes are internal engineering related



The maximum efficiency of a turbine is around 59%

Maintenance tools such as hydraulic torque wrenches keep wind technicians safe and productive, ensuring minimal downtime during servicing.

- ✦ Controlled Bolting Tools
- ✦ Bolting Accessories
- ✦ Bolt Tensioners
- ✦ Torque and Tension Pumps
- ✦ Nut Splitters
- ✦ Cutting Tools
- ✦ Hydraulic Torque Wrenches



3 INSTALLATION AND ASSEMBLY



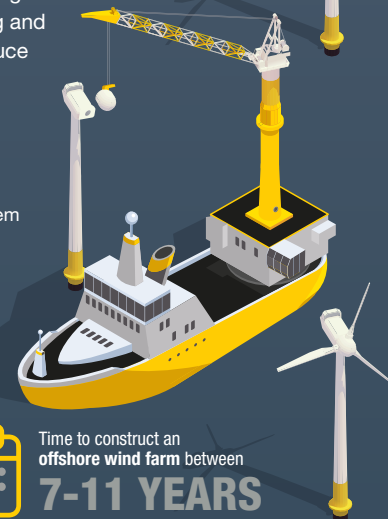
1,500 people are needed to construct a new offshore wind farm



25,000 Bolts (or more) in a typical turbine installation

When installing and assembling wind turbines, hydraulic lifting and bolting tools are used to reduce project timelines and costs.

- ✦ Synchronous Hoist System
- ✦ Tower Flange Alignment Tools
- ✦ Hydraulic Torque Wrenches
- ✦ TP Levelling and Fixation System
- ✦ Tensioners



Time to construct an onshore wind farm between **4-8 YEARS**



Time to construct an offshore wind farm between **7-11 YEARS**



The average height of offshore wind turbines is **150-200m**



Wind energy avoided **336,000,000 METRIC TONS** of CO2 emissions in 2022

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