CERTEX

CTX
Blade Gripper



CTX

Developed by our own engineers

A universal lifting tool for wind turbine blades

CTX Blade Gripper - a unique universal tool

Wind turbine blades can be lifted and moved using this bespoke solution for blade handling, known as the CTX Blade Gripper. The tool is universal and developed by our skilled inhouse engineering and innovation team, and it is designed to accommodate different types of wind turbine blades. This means that the tool can be adapted to various blades with a net weight of up to 20 tons in both horizontal orientations – a need that companies in the industry have requested, but which has up until now been impossible to meet in just one tool.

The CTX Blade Gripper has a WLL of 20 tons and it is designed to handle the lifting challenges often associated with handling wind turbine blades. The tool makes it possible to carry out a wide range of tasks such as safe and efficient installation of wind turbine blades, carrying out repairs and dismantling. We are proud to offer this unique lifting tool to the wind turbine industry, which has welcomed our CTX Blade Gripper. The tool is already part of the service fleet of several of Northern Europe's leading players.

Universal lifting tool

For blade installation and maintenance tasks

Suitable for more blade types

Fits various wind turbine blades in both horizontal orientations

Innovative design

Designed by our in-house Danish engineering team

Watch our CTX Blade Gripper animation


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A tool with unique features

Good to know
CTX Blade Gripper

Adaptive Blade Compatibility

Equipped with a versatile blade cradle, it's compatible with blades up to 20 metric tons, accommodating all orientations and OEM designs

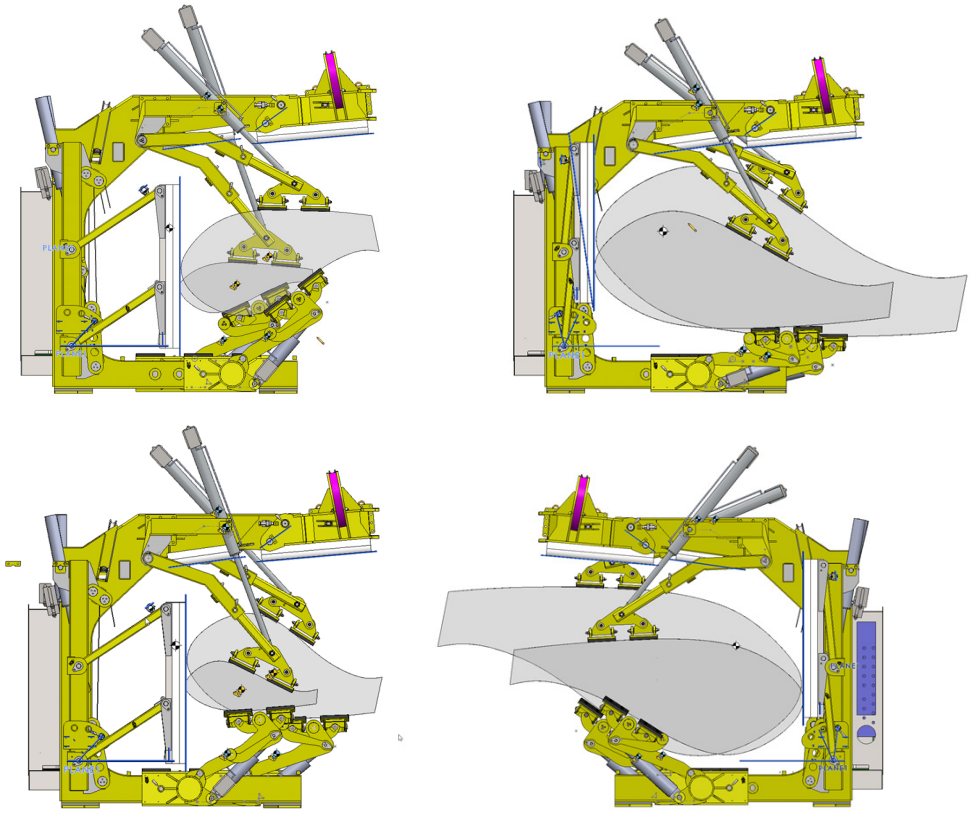
Superior Blade Protection

With our uniquely engineered cradle, blades maintain their integrity, free from indentations — whether they're in the tool for short lifts or prolonged repairs

Holistic Lifecycle Excellence

Beyond mere blade lifting, this tool is meticulously crafted to shine in every phase: from transportation and mobilization to regular maintenance

Blade orientations



Good to know

Specifications

- WLL: 20 tons (44,000 lbs)
- Universal blade cradle
- Max section height 1800mm (measured 5,1m from the blade COG towards the root)
- Min. section height 520mm (measured 5,1m from the blade COG towards the tip)
- Weight: 16 tons (32,000 lbs)
- Hook height: 7500 mm (24,6 ft)
- Wind limit: 15 m/s
- Operating temperature: between -20 and +50 Celsius

Transport

- Transport Dimension (WxHxL, 2.85x3.1x11.3m 112x122x445in)
- Built in container lashing points in the frame
- Transport mode; No parts have to be taken off

Mob/Demob

- Assembly time: ‹1 hour, with two technicians and a crane
- Unfolding crane lifting capacity req. 5 tons

Operation

- Single crane lift
- Min. clearance under blade needed: 725mm
- CoG compensation with top suspension (blades and frames)
- Load distributing cradle system; universal
- placement, does not have to align with reinforcement
- Non-marking pads
- Positive pressure top arm
- Adjustable top suspension: with Auto-level and +/- 5 degree pitch and roll window
- Battery sufficient to 6-9 blades (based on typical usage)
- Parking heater
- Optional: Multiple remote controllers
- Optional: Tagline interface (APS, wire, ropes etc.)
- Optional: Camera system and working lights.

Storage

- Compact footprint (i.e., transport dimension)
- On board battery charging system
- Cradle system pad covers

Maintenance

- Full maintenance manual
- ‘Pre-flight’ checklist
- Spare part kits
- Standard parts from local suppliers (electric, hydraulic)









CTX - from idea to product!

Danish design
CTX Blade Gripper

Designed by Danish engineers

Our innovation center in Middelfart houses our Danish development and engineering team behind this unique tool, the CTX Blade Gripper, which is now part of our product offering for the wind turbine industry. The tool has been developed in close collaboration with experts from service and installation companies, and our customers, who have helped us identify important functions that accommodate their needs and wishes.

The CTX Blade Gripper is a reliable lifting tool with modular features that enable different blade orientations as well as blade types and sizes. With this tool you get several tools in one and it can be used for wind turbine blades in connection with transport, mobilization, operation, and maintenance tasks.



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We sometimes encounter inventions that make even seasoned BMS people open their eyes wide. This was the case, for example, when we first met a new modular lifting tool for wind turbine blades developed by CERTEX Danmark A/S.

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CERTEX



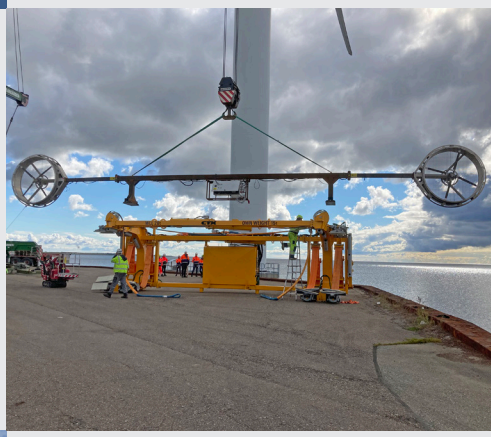
CERTEX + CTX =
Products developed
based on more than 135
years of experience



CTX is our
in-house developed
lifting tool brand



CTX



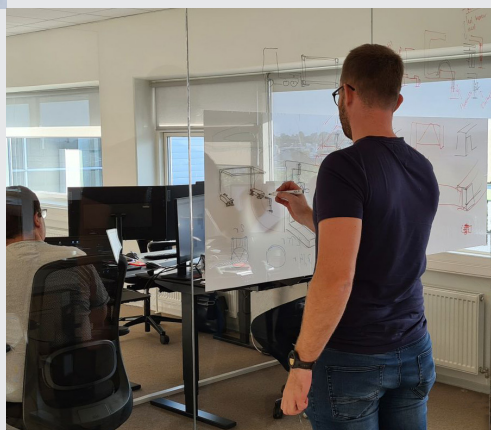
CTX Blade Gripper
- an innovative lifting
tool with unique
modular features



Suitable for all 37-72
meter blade types
in both horizontal
orientations



Danish design
& development



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CERTEX Renewables division is a global player specializing in lifting products, services and solutions. We support customers within the renewable energy industry all over the world.

CERTEX | Lifting Solutions Group
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