What is at Stake ?

Wind turbines experience significant mechanical stress, and welding in the tower affects the structural integrity.

Despite this, 85% of the market chooses to weld inside wind turbines to attach ladders, cables, and other components. This means using up to 100 tons of additional steel per tower to compensate for the use of welding!

The remaining 15% of the market uses magnets instead, but these magnets are made of neodymium, a rare earth element that is expensive and difficult to procure.

Where can we help ?

Cold Pad designed a bonded fastener as an alternative to welding, welded studs and screws that requires no drilling nor welding:

the [C-CLAW S300](https://www.cold-pad.com/solutions-productandservices-c-claw).

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[C-CLAW](https://www.cold-pad.com/solutions-productandservices-c-claw) allows to install equipement like pipe supports, handrails, ladders and more inside and outside wind turbines. They can hold up 300kg for up to 35 years indoors/20 years outdoors in marine conditions. This anchor points can be installed on a newbuild or added later for upgrades/maintenance purposes.

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In 2024, Cold Pad received a Type Approval Certificate (TAC) for the C-CLAW S300 by Bureau Veritas.

What are the benefits for you ?

Using our technology in wind turbines streamlines the installation process. With just two minutes and a user-friendly tool, you can install a C-CLAW S300.

It is also a cost-efficient option. There is no need for expensive magnets or extra steel to maintain structural integrity, as the C-CLAW is bonded - which makes it a non-intrusive device.





