A passion for repair work .

Service offerings for the maintenance of wind power plants

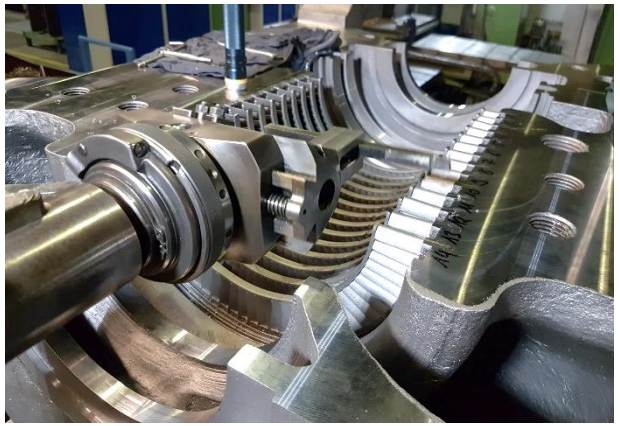
- Onshore & Offshore -

About us

The wagner GmbH is active in the field of machine repairs and installations in almost all industrial sectors.

Our technical knowledge and experience, gained over 50 years as a partner to the industry and more than 25 years in the wind power sector, enable us to be a reliable expert for your individual challenges.

We carry out mechanical machining and assemblies on site worldwide. Production of special machines, devices and spare parts, from in-house development and construction, are the basis for this.



About us

With our expertise, we support you in optimizing your systems and find solutions for improved running times and efficiency.

We execute our work with considerable flexibility and competent service.

Specialized in mobile mechanical processing on site, we are your strong partner for wind power plants: On- and offshore

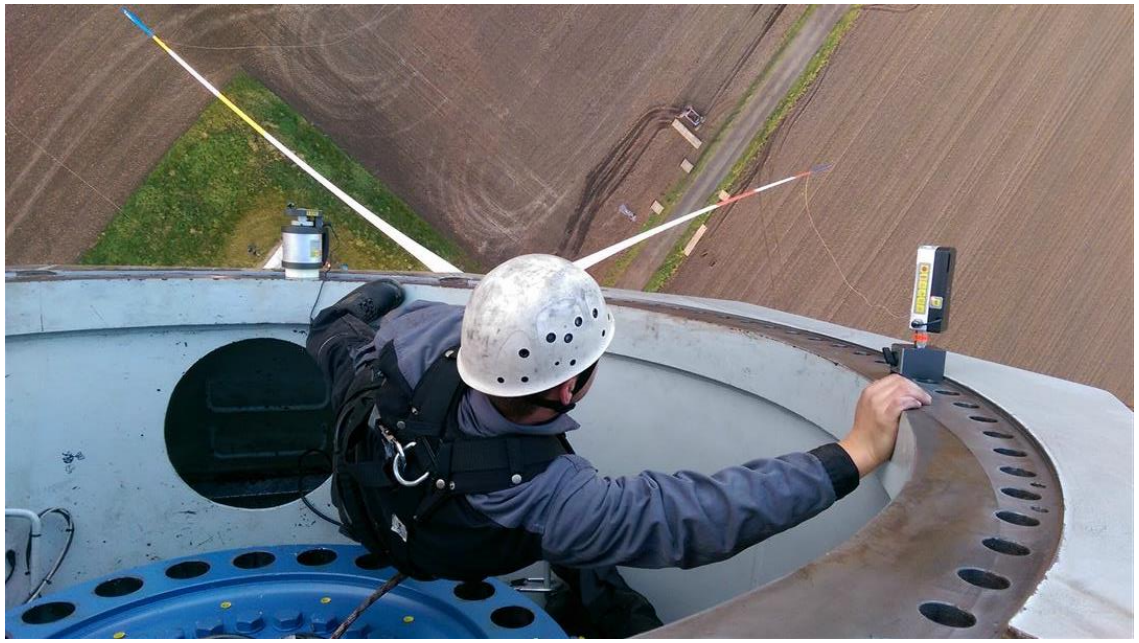
Safety first: We are certified according to SCC and GWO directives**

➢ Our services:

We carry out the following work on wind power plants, among others:

- Root cause analysis using state of the art laser measurement systems and endoscopy
- Drilling and spindle work for renewing bolt threads
- Processing of brake disks in the installed condition
- Milling and turning work on tower and nacelle flanges
- Straightening and spreading work on flanged connections
- Welding work and crack detection
- Spare part production and installation
- Special customized solutions
- Bolting and tensioning

- **Root cause analysis using state of the art laser measurement systems and endoscopy**

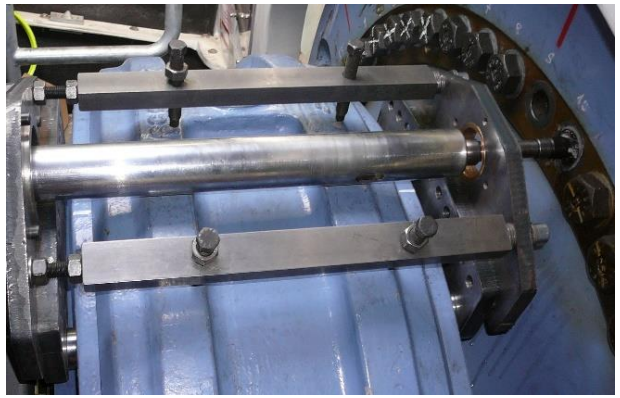


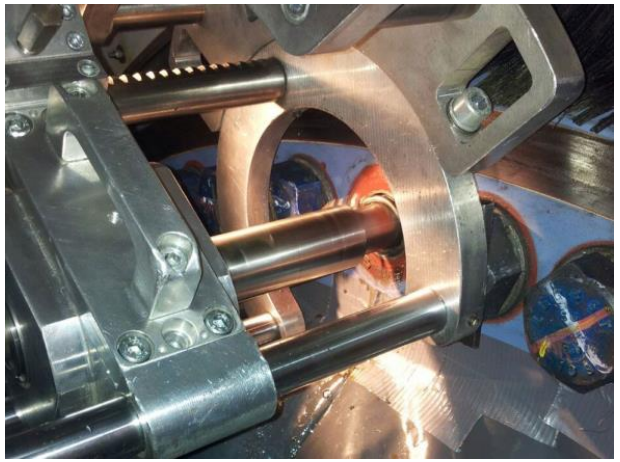
Identification of a flange tilt

Laser measurement is often the basis for detecting defective components and supports the alignment and installation of mobile machine tools.

In addition to conventional measuring systems, we are also equipped with a rotation laser and laser tracker to record machine geometries with very high accuracy. Based on this, our trained staff prepare the damage analysis.

- **Drilling and spindle work for renewing bolt threads**



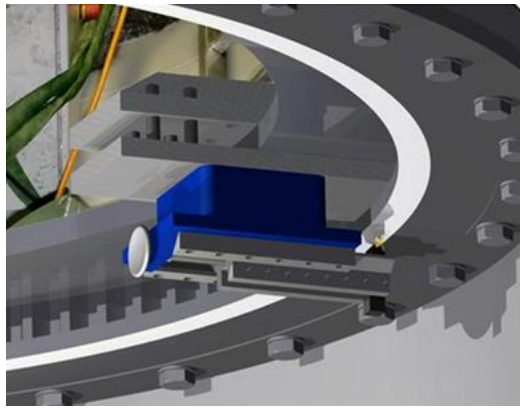


Blade bolt connection

A homogenous contact pattern is the basis for the safety of flanged connections. This is particularly vital for blade bolt and tower flanged connections. Even individual, non-load-bearing connections must be replaced.

For mobile machining of bolts of any size, we have the appropriate special drilling equipment. Damaged threads are professionally repaired by us.

- **Processing of brake disks in the installed condition**



Before

After

Azimuth brake disk

Perfect functioning of the different brake systems is essential for the operational safety of a wind power plant.

With our individually customized tools and the machining we carry out, we ensure that your brake disks are in optimized condition.

Our concept eliminates the need for cost-intensive dismantling of the brake discs.

- **Milling and turning work on tower and nacelle flanges**

| Defective flange faces and tilted swivel joint supports

Within the tolerances required by the manufacturer, we machine your flange surfaces with our machines in all positions - even overhead.

After our machining, frictionless assembly of bearings and rotor blades is possible again. We ensure that your tower is standing straight.

Our mobile plane surface lathes and milling machines are suitable for machining diameters of up to 10,000 mm.

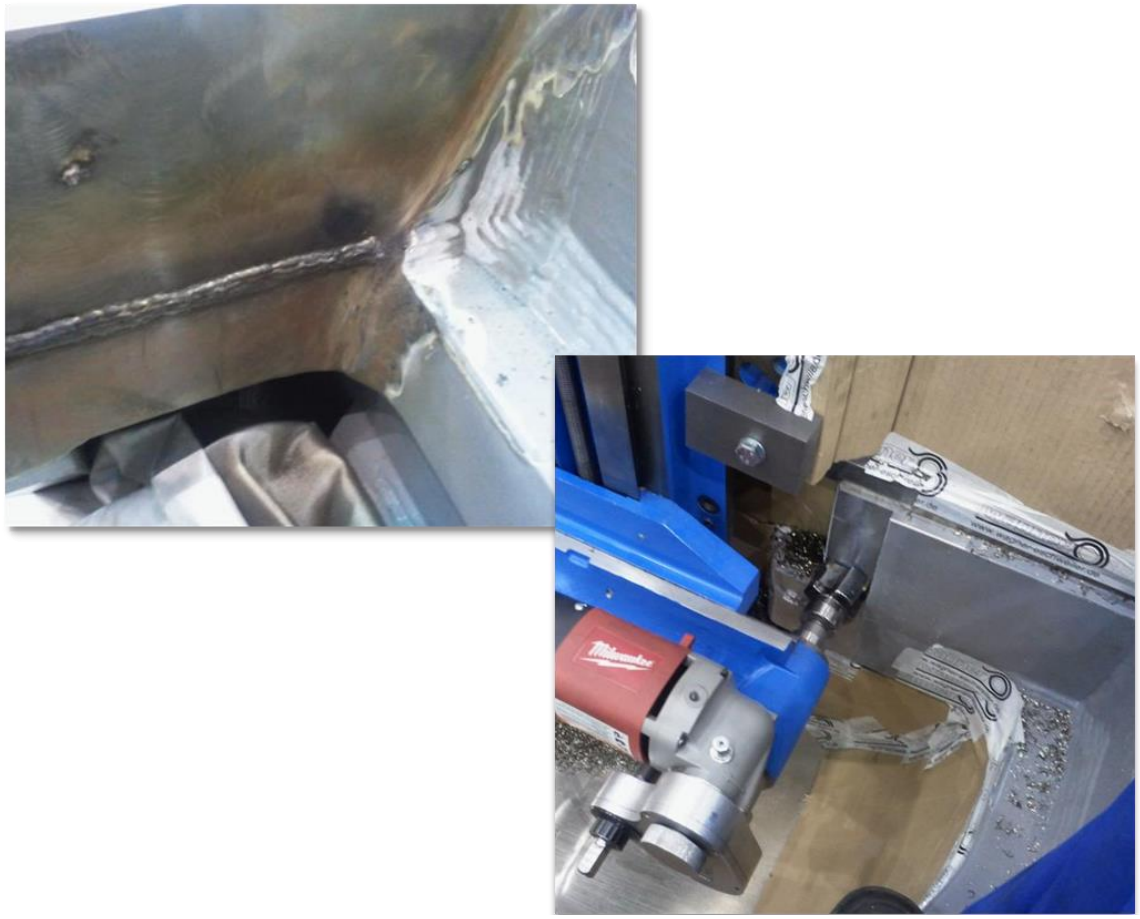
- **Straightening and spreading work on flanged connections**

Spreading work on the tower segment

Manufacturing inaccuracies or transport damage may lead to straightening work to be carried out on the rotor blade flange or tower segments on site.

With our spreading system, we can ensure the proper condition of your connecting flanges up to a diameter of 5,000 mm.

- **Welding work and crack detection**

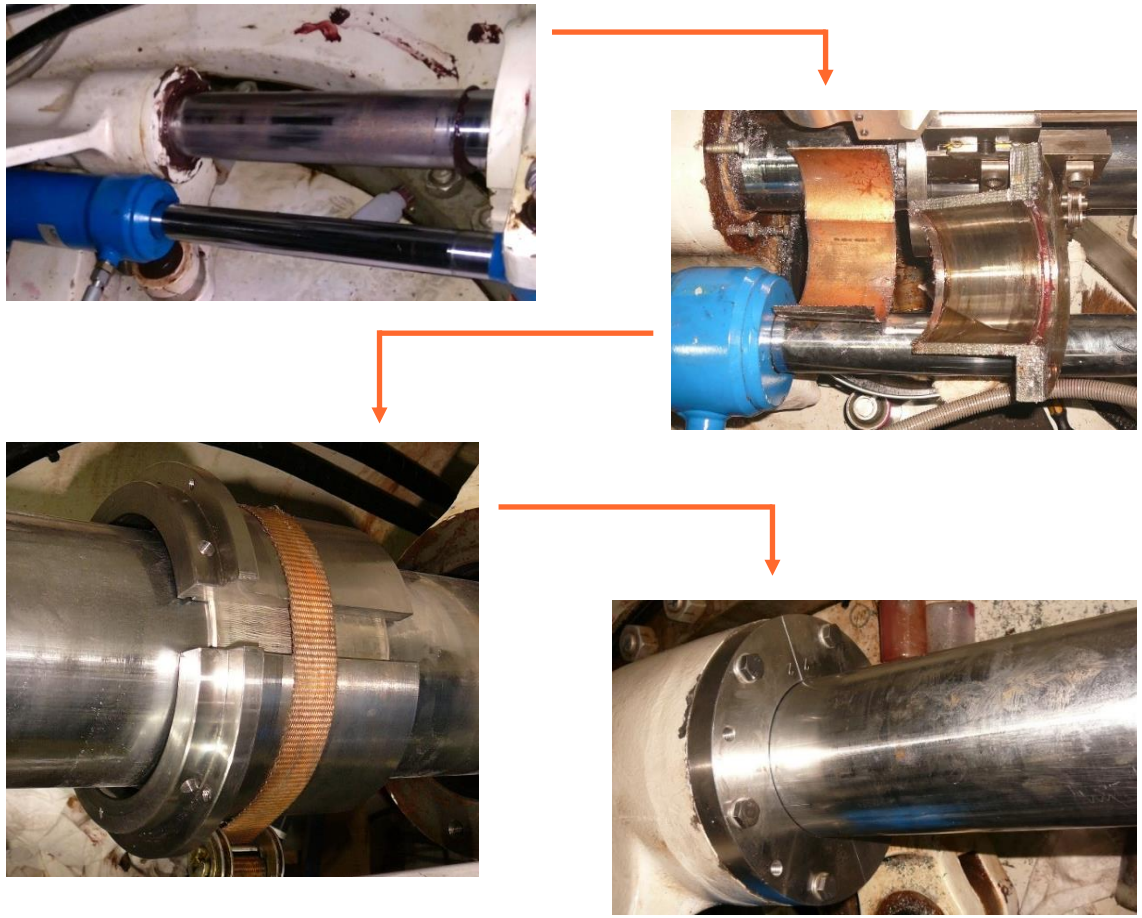


Cracks on the machine base

We check your equipment for cracks. Inaccessible areas are made testable by means of disassembly. We mill and drill cracks at almost any position and have them welded and smoothed by our own qualified personnel.

Our welding division is certified by TÜV Rheinland according to DIN EN 1090-2:2018 EXC3.

- **Spare part production and installation**



Slide bearing replacement in the pitch system

Operational wear requires the replacement of slide bearings. The main cost driver here is the dismantling of the surrounding system components.

We install specially manufactured plain bearings in a split design without having to carry out extensive disassembly.

This saves our customers time-consuming and cost-intensive maintenance work.

- **Special customized solutions**

Construction of a plane milling machine

Our in-house construction department ensures short planning and development phases in order to implement customer requests for technical solutions and repairs at short notice.

We manufacture special machines and devices for your requirements, as well.

- **Bolting and tensioning**

Source: Enerpac Tool Group Corp.

Bolted connection on the rotor hub

In the course of our repair work on damaged threads in a rotor hub, it is finally necessary to install new bolting elements.

This is properly carried out and documented by our certified personnel.

As an ENERPAC contract partner, we are your supplier for the necessary bolting systems.

wagner
Technical Services Worldwide

On-site machining you have to live….

24 hours a day / 365 days a year!

- Contract partner of:

Your contact partner

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