



Forging steel since 1891.

We develop, produce and market sophisticated, customer-specific product solutions made of steel.

Over 125 years of experience makes us experts when it comes to closed-die forging, heat treatment, metallurgy, welding processes, machining and manufacturing of components.



Forging methods:

- Closed-die forging
- Hot extrusion

Process reliability:

- Simulation of the processes
- Automation
- In-process quality assurance

Advantages and properties of forged components:

Optimised weight and increased fatigue strength.

Due to:

Defined grain structure, high ductility, high core density.

Climate protection is an important concern for us. Our portfolio includes a wide range of products that are being used in an increasing number of wind turbines.

Please get in touch for further information and our tailor-made solutions.



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IN WIND TURBINES 



Partner of the wind power industry

- Closed-die forging
- Hot extrusion
- Heat treatment
- Welding
- Machining
- Manufacturing of components



Range of products for the wind power industry



Spur wheels

Ø 320 - 860 mm
w 30 - 590 kg



Planet carriers

Ø 315 - 825 mm
w 30 - 890 kg



Flanged hollow wheels

Ø 245 - 800 mm
w 20 - 680 kg



Drive shafts (extrusion)

Ø 185 - 285 mm
w 40 - 160 kg



Planet wheel

Ø 210 - 660 mm
w 33 - 800 kg



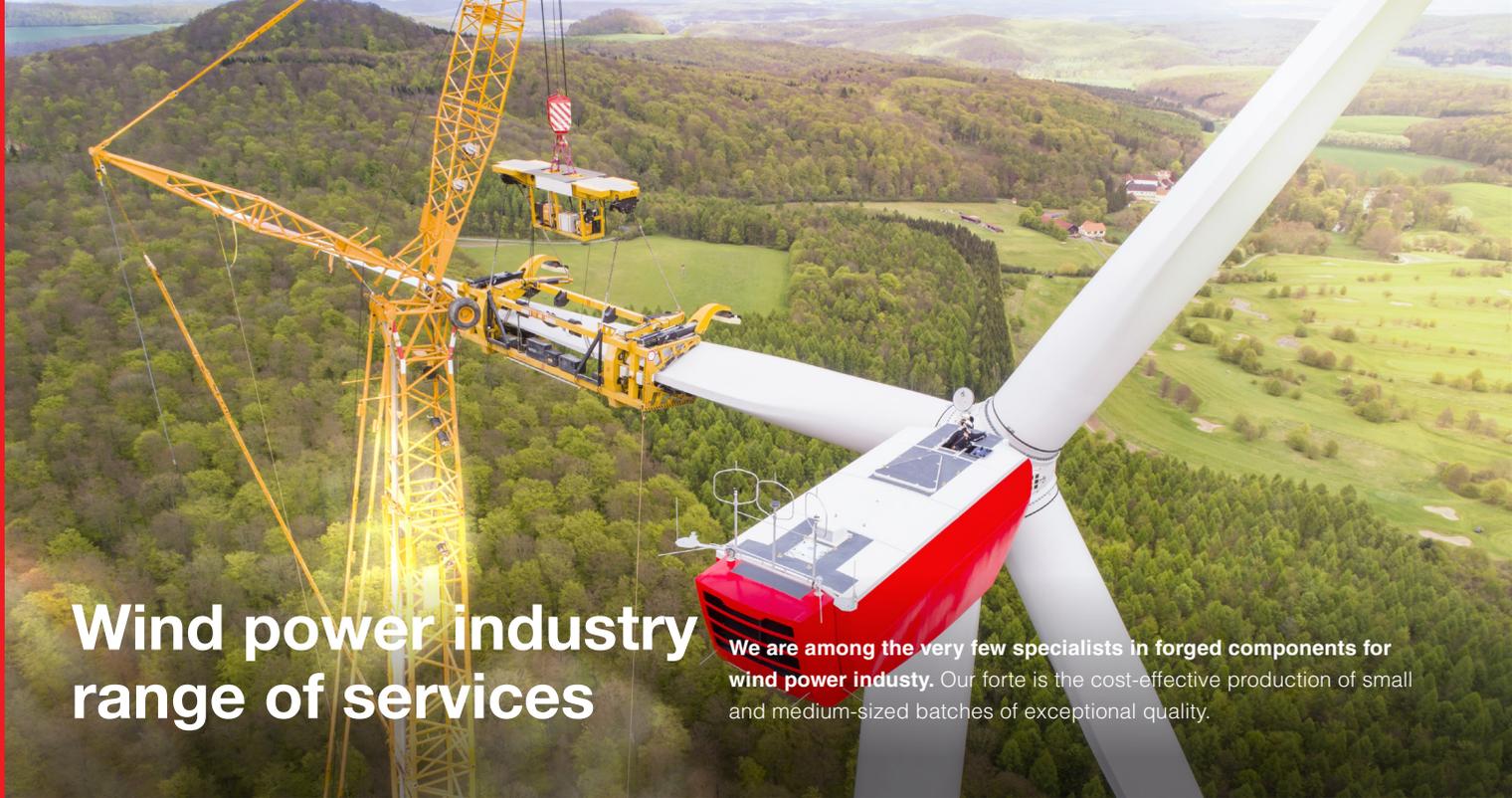
Blocks

axb 200x200 - 400x630
w 30 - 600 kg



Clutch Hubs

Ø 325 - 680 mm
w 37 - 410 kg



Wind power industry range of services

We are among the very few specialists in forged components for wind power industry. Our forte is the cost-effective production of small and medium-sized batches of exceptional quality.

Machining

Machinery specialised for:

Turning	up to Ø 1.300 x 950 mm
Milling (X/Y/Z)	1.050 mm / 510 mm / 510 mm
Machining centres	up to Ø 920 x 1.800 mm

Materials engineering

Steel grades:

Carbon steels
Quenched and tempered steels / case-hardened steels
Austenitic steels
Ferritic / martensitic steels (stainless)
Duplex steels (stainless)

Heat treatment:

+QT (hardening and tempering)
+N (normalising)
+FP (isothermal annealing)
+A (soft annealing)
+AT (solution annealing)

Quality management

Certificates:

DIN EN ISO 9001:2015
DIN EN ISO 14001:2015
DIN EN ISO 50001:2018

Approvals:

American Bureau of Shipping
Bureau Veritas
DNV • GL
Lloyd's Register
DIN EN 15085-2 CL1
AD 2000-Merkblatt W0
DGRL 2014/68/EU
KTA 3201.1 Abs. 3 u. KTA 3211.1 Abs. 3

Testing methods

Our own laboratory offers destructive and non-destructive testing.

3D measurement

X-axis: 1.200 mm
Y-axis: 2.000 mm
Z-axis: 1.000 mm