



Services

Vogelsang: The whole world of electric motors

With Vogelsang you benefit from decades of experience in the maintenance, inspection and repair of motors and generators. Vogelsang is an expert in a wide range of technologies, is not confined to a particular manufacturer and is naturally also certified to ISO 9000. Measuring and test results, as well as the different production steps are documented. Our independent experts carry out acceptance of motors for use in hazardous areas on a daily basis. Judge for yourself:

Our range of services:

- Repair of motors, generators, turbo generators
- Rebuilding of replacement parts and complete machines
- Winding and new winding for direct and rotary current
- Mechanical adaptation of machines



Facilities at the Bochum factory

Expertise in winding technology, in mechanical production and state-of-the-art test bay engineering: the factory in Bochum is designed for optimum performance!

- **High-voltage windings,**
 - machines for manufacture of shaped coils using resin-rich technology, an automatic taping machine and back presses for shank lengths up to 4500mm are available
 - Roebel-type windings
- **Direct current windings,**
 - Manufacture of direct current armature windings, also descending rod winding
 - Manufacture and total repair as well as new insulation of stator windings
- **Round wire windings, also in Kapton and other wire qualities**
- **Roebel-type windings**
- **Collector repairs, new supply and conversion**

Manufacture of mechanical parts at Vogelsang

- Centre lathes up to 40t piece weight and a \varnothing up to 2040mm.
- Boring equipment and carousel lathes (\varnothing 2000mm) up to 10t piece weight
- Balancing machines up to 3200rpm, 5t, 4500mm length
- Powder coating for NiFe, NiFe-free alloys, aluminium and ceramics

Modern test Stations

- Direct current supply up to 750V and 2500A,
- Continuously adjustable rotary current supply 11 KV
- Acceptance of equipment for hazardous areas, load generators up to 1000kW (up to 3000 rpm)
- Tan delta measurements and partial discharge measurements for high-voltage windings
- Vibration analyses
- Iron loss measurements, including thermographic assessment
- Recalculation and calculation of machines



Vogelsang on the move: service on site

Complex machines and equipment demand fast reactions when it comes to service and repair, as well as reliable service on site. Vogelsang offers this with its own service vehicles, crane vehicles and precision work where it really matters.

- Disassembly and reassembly, maintenance and inspection work
- Balancing
- Roller bearing analysis, electrical analysis
- Laser alignment of machine lines
- Measurement and assessment of machine vibrations with frequency analysis
- Thermographic investigations
- Endoscopic investigations
- Level and foundation measurements
- Efficiency testing of machine sets using patented process
- Loss factor measurement (tan delta) Partial discharge measurement for high-voltage windings
- Commutator processing on site with mobile lathes
- Consultancy for and support of maintenance projects
- Introduction of condition-orientated maintenance

Further areas of work:

- Transformers, special coils & magnets
- Pumps & pumping stations
- Fans
- Mechanical components
- Service & Diagnosis
- V + A Service for combustion engines, stationary and on ships

24-hour service

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