PARTZSCH



RANGE OF PRODUCTS AND SERVICES

Power for your vision



MACHINES ARE OUR DRIVE

We, the PARTZSCH Group, are not only one of the leading mid-size companies of the electrical engineering branch, but also Europe's largest, manufacturer-independent repair works for rotating electrical machines up to 250 MVA. What makes us different? With us, you obtain everything related to electric motors and generators from a single source – and all that in excellent quality. We do not only repair, but also manufacture everything – from the single component to the complete machine. Special designs and replications are also parts of our product portfolio, alongside repairs and our on-site service for machines of all sizes. Our offer is rounded off with various test bay services. The PARTZSCH Group's quality management system is certified to ISO 9001:2015.
You as our customers benefit from our continuously surpassing quality, short delivery times and our convincing full-time service. With our expertise and high production depth, we enable even the most challenging customer wishes to become reality. Do not hesitate to contact us - we develop customised, tailor-made and high-quality solutions together with you.



CHRISTIAN PARTZSCH
Managing director

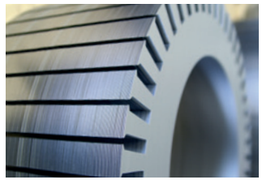
OUR PRODUCTS

Synchronous generators



- Customised and service-oriented solutions in the field of construction of special machines
- Power range up to 20,000 kVA and voltages up to 15,000 V
- Full service ranging from manufacture via maintenance and inspection to repair and commissioning

Component manufacture – Sheet metal



- Laser cutting and water jet cutting, several variants of stacking
- Reverse engineering for repair and recreation: Contour detection, reconstruction, sheet metal cutting
- Job shop and series manufacturing
- Extensive steel coil stock

Component manufacture – Stator windings



- Round wire windings
- Preformed windings
- Roebel windings
- Field windings
- Special windings

Component manufacture – Rotor windings



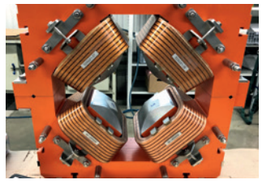
- Slip-ring rotor windings
- Squirrel-cage rotor windings
- Pole wheels
- DC windings

Lift drives



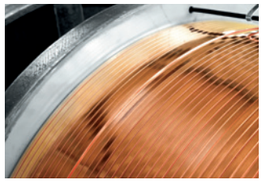
- Development, production, and distribution of gearless lift drives
- Energy-efficient and compact, low-maintenance and low-noise, can be configured individually
- 6 frame sizes for the range of useful loads from 225 kg to 14,000 kg and lifting heights up to 35 m
- Patented drum drives developed in-house

Accelerator magnets



- Electromagnetic and mechanical design
- Magnetic measurements
- Product certifications
- Installation, commissioning, maintenance, and warranty

Copper wires



- Manufacture of copper round and flat wire: either bare or with a great variety of insulation materials (mica tape, polyimide film, enamel, glass yarn, polyester blended yarn)
- High flexibility and permanent quality checks (in accordance with ISO 9001:2015)
- Mechanical and electrical tests, as well as profile, tension, winding, dimensional and other tests

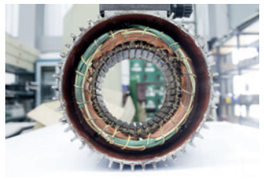
High-performance spindles



- Manufacture of all spindles of dimensions 6.8 mm/ 7.8 mm/8.8 mm in small, medium and large series
- Special constructions, prototype and replacement spindles
- Delivery of various spindle components
- High fracture toughness and constant surface quality
- Mechanical and electrical tests, as well as profile, tension, winding, dimensional and other tests

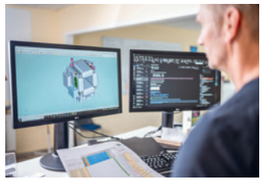
OUR SERVICES

Special designs and replications



- Complete replication (also without the original documents)
- Creation of prototypes and development up to series maturity
- Also for complex and new electric machines, independently of the age and design of the machine
- Reverse engineering

Engineering



- High quality and engineering experience in modifying machines over many years
- Production of shafts
- Vibration sensors
- Installation of brakes
- Changing of the cooling system, anti-condensation heater
- Special flanges

Balancing and overspeed testing



- The mechanical vibrations in the low- and high-speed ranges are determined by way of a balancing and overspeed test facility
- High-speed balancing
- Dynamic balancing
- Report specifying the balancing quality of the test object

Mechanical machining



- Shaft production and rotor machining
- Case and stator machining
- Subassembly production
- Manufacture of add-ons, replacements and new parts, tools and fixtures
- Field coils and pole core machining

On-site service



- Reliable on-site service for all generators up to 250 MV, independently of the brand/ manufacturer
- Technical commissioning; report with the collected data, analyses and evaluations of all tested states of operation of the generator
- Preventive maintenance

Test bay



- Quality assurance by way of a large variety of test procedures, such as electrical tests (AC/DC), mechanical tests, machine tests, tests of the laminated cores, and special tests

Repair and maintenance for electric motors and generators



- Disassembly/assembly: either on your site or in the workshop, incl. transport
- Rewinding of rotors and stators
- Refurbishing of shafts and replacement of sliprings and collectors
- Dynamic balancing, rewinding, and rewedging
- Manufacture and delivery of spare parts
- Commissioning, test runs in the test bay, vibration analyses, electrical I/O measurements

OUR CUSTOMERS

Our range of services is as diverse as the branches of our customers. Municipal utilities and power stations rely on our expertise, as do manufacturers of wind turbines and transport enterprises. We build motors for many renowned companies and our generators are also delivered overseas. Our high-quality copper wires are installed in countless machines.

OUR SERVICE KNOWS NO BOUNDARIES. WE SUPPORT NATIONAL AND INTERNATIONAL CUSTOMERS IN THE FOLLOWING BRANCHES:

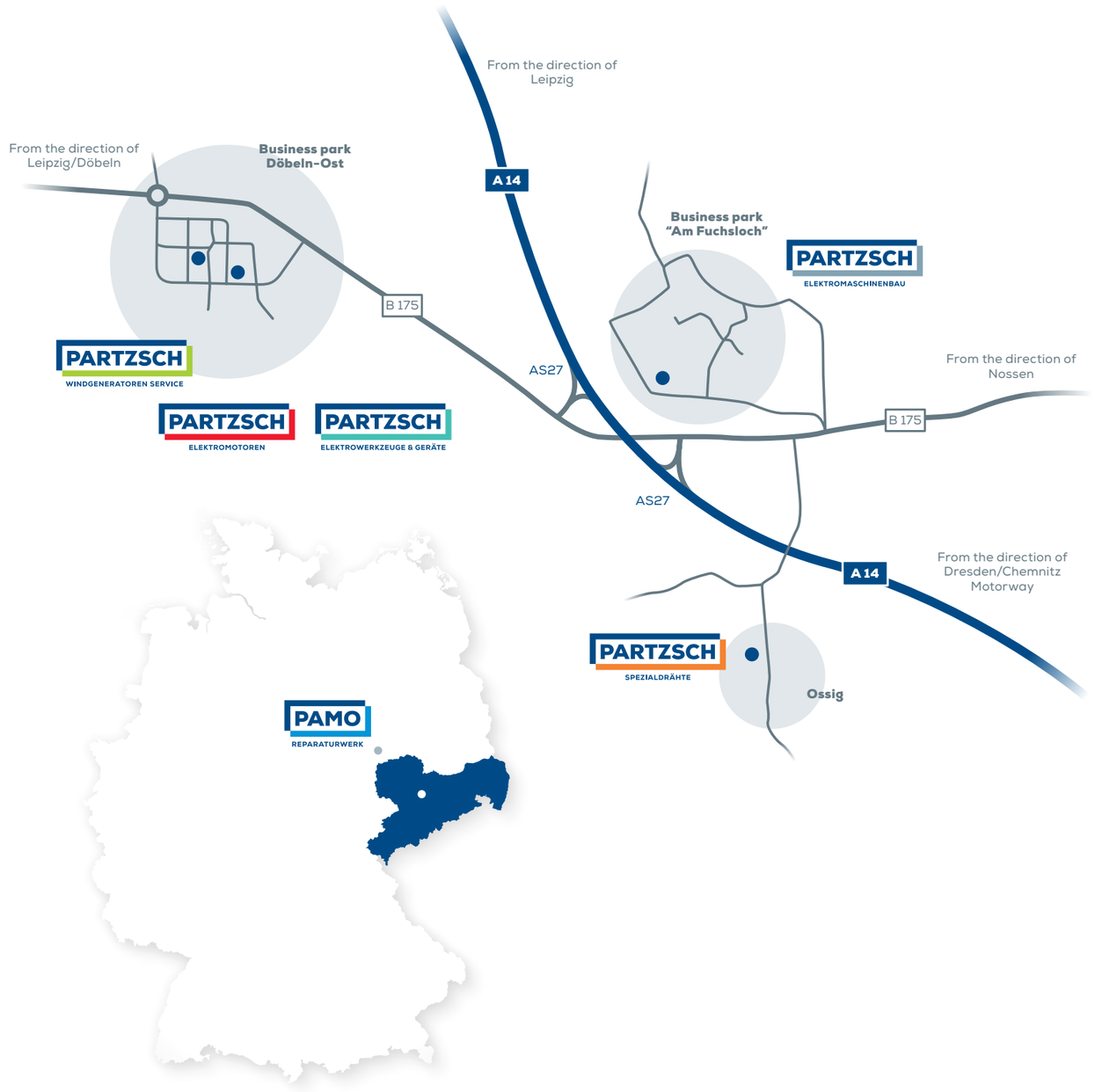
- Industry
- Naval technology and ship engineering
- Rail transportation
- Municipal utilities and power stations
- Hydroelectric power
- Wind power
- Lift drives
- Accelerator magnet technology

For detailed views into our references, refer to our website at **https://en.partzsch.de/branches-references**.
We would be delighted if one day we could add you to this list of satisfied customers.



HOW TO FIND US

Our central location and excellent links to the A14 motorway guarantee fast and flexible deliveries.



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PARTZSCH

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