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Press release

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Pyrolysis systems from SCHWING Technologies clean electric motors and generators before repair

Thermal removal of resin and varnish from copper coils using 24/7 cleaning service

Electric motors ensure the reliable drive of many devices, machines, vehicles and plants. Electricity flows through copper conductor coils, which must first be freed of resin and paint layers in order to be recovered for maintenance or repair work. SCHWING Technologies is an expert in this type of thermal removal of resins and lacquer coatings. The company cleans electric motors, generators, stators, and other parts in large pyrolysis systems. Through thermal oxidation, the large MAXICLEAN systems remove all adherent resin and paint layers gently and effectively. "This is the fastest and most efficient method, removing all grease and other adherents without any residue", knows Viktor Brandner, coordinator of the service division of SCHWING. As a 24/7 service, the company cleans parts at its location in Neukirchen-Vluyn on the Lower Rhine and supplements its service with the corresponding logistics.

Cleaning service for electric motors for recycling

For more than 15 years the Duisburg-based repair company Bornemann GmbH has also been using these services. "Inspect, repair and replace" is the motto of this medium-sized company. Founded in 1968, Bornemann specializes in the maintenance, repair and overhaul of DC and three-phase motors, generators and pumps. "We always provide aid when repairs have to be carried out quickly in the event of damage," reports Managing Director Lars Bornemann and underlines: "Production downtimes are expensive – we want to keep them as short as possible." The company regularly delivers electric motors for cleaning to Neukirchen-Vluyn, approximately 15 kilometers away. Lars Bornemann knows from many years of experience that using the cleaning service is the simplest and safest way to remove paint from coils and protecting the expensive motors. In addition, the preparation of the cleaned stators and rotors for rewinding is much easier and has a higher quality, since there are no residues of old

insulation and impregnation agents to be removed. He sees a further advantage in relieving employees of the heavy labor of conventional, physical removal of defective windings. "Since time is money, we appreciate the cleaning service from SCHWING", he concludes.

Safe, gentle and short cleaning process

Depending on component size, the pyrolysis systems from SCHWING remove all organic coatings in just one operation. The process takes about eight to ten hours and uses a temperature of about 400 degrees Celsius. Inorganic residues can be dissolved by means of a short post-treatment. "This cleaning process can be precisely controlled, and it can be reproduced at any time," emphasizes SCHWING expert Brandner and adds: "We use an externally gas-heated cleaning chamber for this purpose. There, a special hot air duct ensures optimal temperature distribution and guarantees the shortest possible cleaning time". The fully automatic cleaning process runs completely unattended and not only saves manpower, but also accelerates further production processes. SCHWING cleans at the company site in the Lower Rhine region and sells its thermal cleaning systems worldwide.

Further information: https://www.thermal-cleaning.com/en/applications-and-industries/electric-motors.html

Keywords: thermal cleaning, thermal pyrolysis, MAXICLEAN, repair, electric motor, generator, copper coil, copper coil cleaning, cleaning, paint stripping

SCHWING Technologies ensures reliable thermal removal of resin and paint residues from a slip ring motor - here before cleaning
Photo credits: SCHWING Technologies
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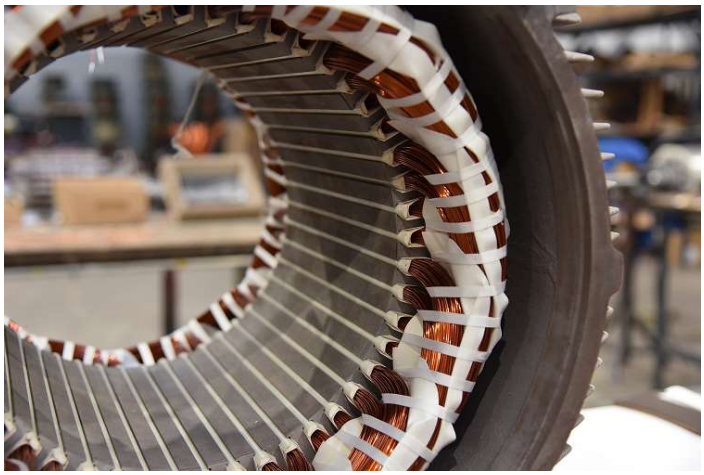

At Bornemann GmbH: Repair of a three-phase stator with new winding after thermal cleaning by SCHWING Technologies
Photo credits: SCHWING Technologies
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Thermal pyrolysis system MAXICLEAN removes paint and resin residues from electric motors, stators and other large parts
Photo credits: SCHWING Technologies
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About SCHWING Technologies

SCHWING Technologies has been operating for over 50 years and is the worldwide technological leader for high-temperature systems for thermal cleaning, thermo-chemical finishing and heat treatment of metal parts and tools. Managing directors are Ewald Schwing, Thomas Schwing and Alfred Schillert. The owner-managed company designs, manufactures, and operates systems at its headquarters in Neukirchen-Vluyn in Germany's Lower Rhine region. Built upon the achievements of German engineering, the medium-sized business is globally the best-known specialist in the removal of plastics. Among SCHWING's approximate 2,500 international clients are companies from the plastics and fiber industries, as well as from the chemicals and automobile sectors. For every cleaning need, the company with its approximately 80 employees offers the most economically, ecologically and qualitatively best technology and cleaning solution. SCHWING is also a reliable service partner for contract cleaning by processing more than 250,000 tools and parts each year to the highest environmental and qualitative standards. Founded in 1969, the company celebrates its 50th anniversary in 2019 and opened SCHWING Technologies North America Inc., a new sales company in the USA, in that year.

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