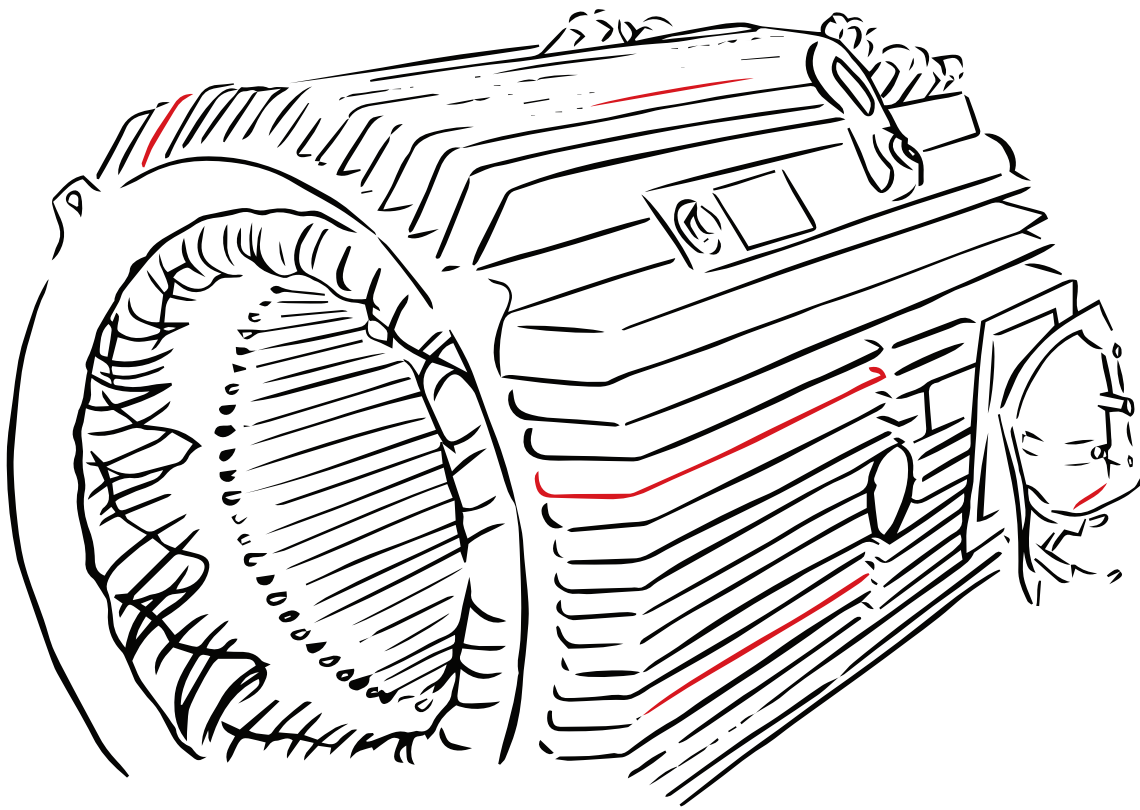


**ELSEWEDY
ELECTRIC**

**ELECTRICAL
PRODUCTS**

SERVICE CENTER FOR **MOTORS & GENERATORS**



Authorized Service Center

WOLONG
Power your future

**ATB LAURENCE
SCOTT**

ATB SEVER
Technology in Motion

SCHORCH

**BROOK
CROMPTON**
Keeping Industry Turning

Introduction

Elsowedy Electric Motion Service Center, one of the biggest service centers for motors and generators in Egypt, offers a full service & repair package for industrial motors, ranging from fractional horsepower to medium voltage. Driven by technology and innovation, our service center is operated by a highly skilled technical team possessing all the necessary equipment for repairs, tests and machinery installation, ensuring the highest efficiency & reliability levels, both on-site & off-site.

Workshop Service

Spanning 4000m², our workshop is equipped with state-of-the-art tools to service your electric motors and provide an exceptional customer service.



Field Service

Our Certified service team are equipped to undergo necessary mechanical/electrical problem diagnosis and life assessment of MV electric motors, starting from commissioning, startup phase, and throughout the whole motor life cycle. Our team is also capable of providing a range of predictive maintenance services for the electric motors such as: infrared thermographic studies, motor surge & Hi-Pot testing, motor vibration analysis, amongst other services.

The fleet is also well-equipped to handle any number of on-site equipment troubleshooting and repairs including:

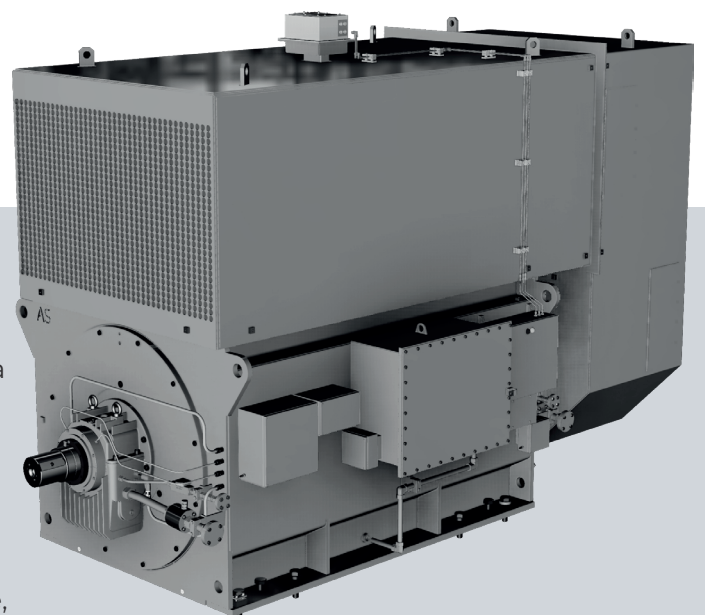
- Installations of electric motors & equipment
- Motor & gearbox alignment
- Electric drive motor controls troubleshooting
- Predictive & preventive maintenance
- Overhead crane inspection & repair
- Laser alignment

Spare Parts

Our warehouse carries an extensive stock of the most frequently used spare parts. However, additional spare parts can be delivered upon request in a very timely manner.

Replacement Motors

Our technical support engineers can offer replacement motors for any brand at the end of its life cycle, taking into consideration the motor's electrical data and mechanical dimensions. We also offer engineering solutions to replace a SQ motor with a VFD compatible slip-ring or an induction motor.



Crane Capacity of 50 (2X25) Tons

To ensure your product's safety, we use cranes to lift or move the equipment through every stage. We use 2x25 tons cranes that can handle motors and generators of up to 1600 frame size safely and precisely.



VPI Insulation System

Vacuum Pressure Impregnation (VPI) is a process that a fully wound rotor or stator gets completely submerged in resin. Through a combination of dry and wet vacuum, and pressure cycles, the resin is assimilated throughout the insulation system.

Vacuum Pressure impregnation methods ensure long-thermo protection and optimal electrical insulation for the windings of electrical motors, guaranteeing a reliable production process and high-quality impregnation results for your product. Net Diameter 2500 mm
Insulation up to 15 kV

Balancing Machine up to 20 Tons

A balancing machine is a measuring tool used for balancing rotating machine parts such as rotors for electric motors, fans, turbines, disc brakes, disc drives, propellers and pumps.

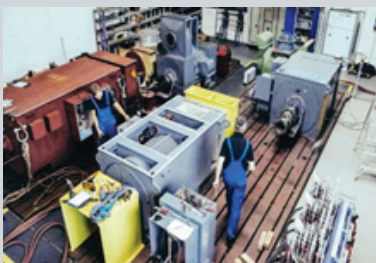
The main aim of balancing rotors is to reduce unbalance to an extent that enables its proper operation once it is installed on site. Other benefits of balancing also include vibration reduction and maximizing efficiency and life expectancy of the rotor and bearings. Additionally, during production and repair, it is necessary to balance rotors prior to full assembly to avoid limited access to the rotor.

A balancing machine is used to determine the exact location and amount of unbalanced masses on a rotor.



Our Schenck Balancing Machine Capabilities

Length: up to 7000 mm
Diameter: up to 2400 mm
Weight: up to 18000 Kg



Testing Up to 10 MW / 11 KV / 50 & 60 Hz

Workshop will have no load test with full voltage and full speed including vibration with analysis measurements, and all types of HV Static tests for motor after repair.

Static Tests: The checklist for the testing process is done as follows:

- Insulation resistance test
- PI test
- Hi-Pot tester up to 40 KV
- Coreless tester
- Surge Comparison Tester
- Micro Ohm Meter

Dynamic Test or Online Motor Testing is performed with the motor running in its normal environment and load condition according to the ISO standard.

MOTOR LIFE CYCLE IN OUR SERVICE WORKSHOP

Income check / Inspection

- Dimensional check
- Parts condition assessment



Burn Off Oven

- Dim. 3.0 x 4.0 x 3.0m
- Capacity 20 tons
- Maximum Temp. 7000°C



Winding

- Stator up to frame size 1600
- DC Machines / Synchronous
- Induction machines
- Traction machines



Balancing

- Schenck Balancing MC
- Capacity : 18 tons
- Length : 7m



Curing Oven

- Dim. 3.0 x 4.0 x 3.0m
- Capacity 50 tons
- Max Temp. 250°C



VPI

- VPI Technology
- Meier System© diameter
- up to 2500mm & 3500mm depth



Assembly

- Lifting capacity up to 50 (2X25) tons



Testing

- No load test up to 12 MW
- Max test voltage 15 V

ELSEWEDY ELECTRIC FOR ELECTRICAL PRODUCTS S.A.E
Head Office: Building 13C03, Cairo Festival City, New Cairo, Egypt
Workshop: 3rd Industrial Zone A4, 10th of Ramadan City
servicesales.motion@elsewedy.com
www.elsewedyelectric.com

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