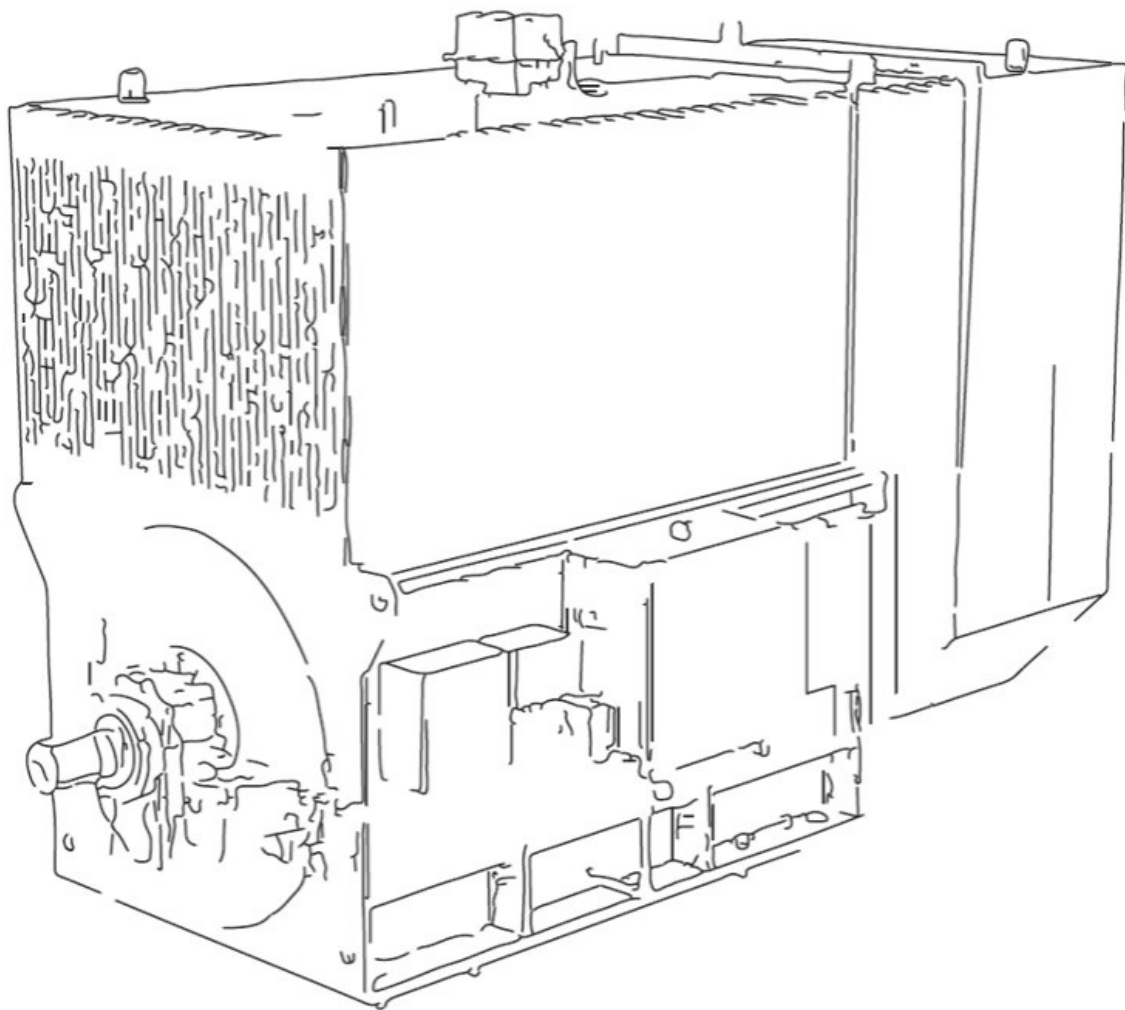


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Motors Service Center



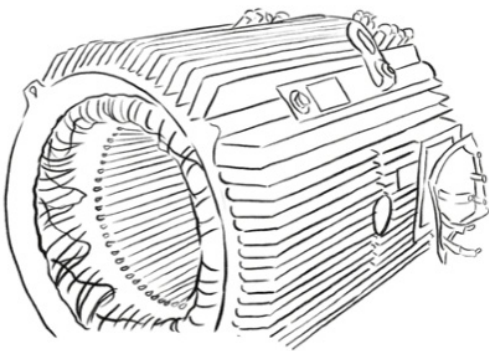
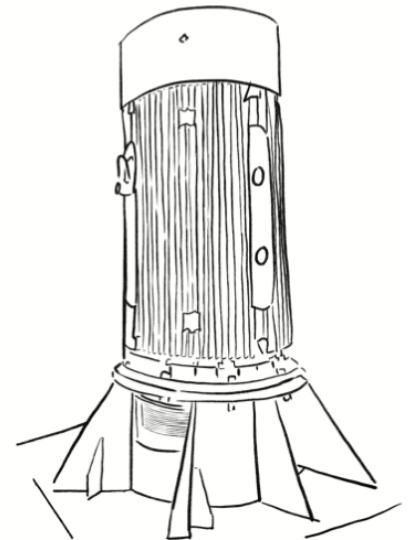
Elsewedy Electric Motion Service Center offers a full service & repair package for industrial motors, from fractional horsepower to medium voltage. Our service center has a highly skilled technical team possessing all the necessary equipment for repairs, tests and machinery installation, meanwhile, ensuring the highest efficiency & reliability levels, both on-site & off-site.

• Workshop Service:

A 4000m2 workshop equipped with all the essential materials and expertise to service your electric motors and provide an exceptional customer experience.

• Field Service:

A certified service team to deal with MV electric motors starting from commissioning, startup phase and throughout the whole motor life cycle to undergo necessary mechanical/electrical problem diagnosis and life assessment. Our team is also capable of providing a range of predictive maintenance services for the electric motors such as: infrared thermographic studies, motor surge & hipot testing, motor vibration analysis, ..etc.



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

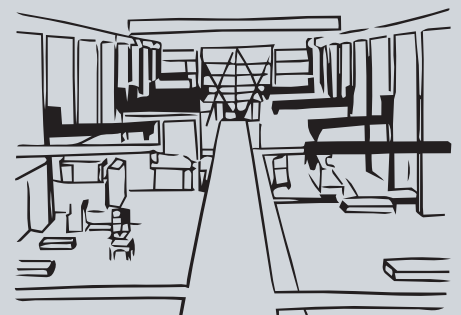
- Installations of electric motors & equipment
- Motor & gearbox alignment
- Electric drive motor controls troubleshooting
- Predictive & preventive maintenance
- Overhead crane inspection & repair
- Laser alignment

• Spare parts:

Our warehouse includes, but is not limited to, a 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 induction motor.



Crane Capacity with 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 through which fully wound rotor or stator gets completely submerged in resin. Through a combination of dry & 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 and it guarantees a reliable production process and high-quality impregnation results for your product.

Net Diameter: 2500 mm
Depth : 3500 mm

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.

Balancing rotors prior to full assembly is also a necessary step in production and repair process 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 Schenk Balancing Machine Capabilities: -

Length: Up to 7'000 mm
Diameter: Up to 2'400 mm
Weight: Up to 20'000 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
- Core less 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 REPAIR CYCLE IN ELSEWEDY MOTORS SERVICE CENTER

Income check / Inspection

- Dimensional check
- Condition monitoring



Winding

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



VPI

- VPI Technology
- Meier system© up to 11 KV



Testing

- No load test up to 10 MW
- Max test voltage 11 KV



Assembly

- Lifting capacity up to 50 (2X25) tons



Balancing

- Schenck Balancing MC
- Capacity : 20 tons
- Length : 7 meters



Curing oven

- Dim 3.0 m x 4.0 m x 3.0 m
- Max Temp. : 200°C

ELSEWEDY ELECTRIC FOR ELECTRICAL PRODUCTS S.A.E

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