

# ALTERNATOR SERVICES EXPERTS

Nidec Leroy-Somer along with its approved partner CENTRAL GROUP offer the best workshop and onsite services for your LEROY-SOMER alternators up to 35,000 kVA.

Choosing our Services mean that work is carried out by engineers trained to the highest industry standards.

Only genuine spare parts are used, and all work is conformed to the quality standards set by Nidec Leroy-Somer to guarantee the performance and availability of your alternators.



## On-site Maintenance Type

MT 0	MT 1	MT 2	MT 3	MT 4
<b>INSTALLATION &amp; COMMISSIONING</b>	<b>ELECTRICAL STATIC MAINTENANCE</b>	<b>DYNAMIC MAINTENANCE</b>	<b>MECHANICAL MAINTENANCE</b>	<b>OVERHAUL</b>
<ul style="list-style-type: none"> <li>• Wiring check</li> <li>• Insulation resistance</li> <li>• Phase order check</li> <li>• Synchronization control</li> <li>• Dynamic tests by load steps</li> <li>• AVR setup</li> </ul>	<ul style="list-style-type: none"> <li>• Connections check</li> <li>• Generator visual inspection</li> <li>• Visual inspection of windings</li> <li>• Check terminal box conditions</li> <li>• Insulation resistance</li> <li>• Polarization index</li> </ul> <p><b>Other checks can be made according to the generator type and the specificities of the installation.</b></p>	<ul style="list-style-type: none"> <li>• Vibration level and analysis</li> <li>• Temperatures check</li> <li>• Electrical parameters check</li> </ul> <p><b>If your generator is monitored by the GenOSys system, MT 2 is not necessary.</b></p>	<p><b>Antifriction bearings</b></p> <ul style="list-style-type: none"> <li>• DE and NDE antifriction bearings replacement</li> </ul> <p><b>Sleeve bearings</b></p> <ul style="list-style-type: none"> <li>• Shell bearings clearance control and sealing replacement</li> </ul>	<ul style="list-style-type: none"> <li>• Thanks to our CARE2GEN solution, complete overhaul including MT 1, MT 2, full cleaning and varnishing</li> </ul>
<b>Options</b>	Partial discharges measurement, extended warranty, alignment, installed base management, on-site removal, rental generators, troubleshooting and repairs			



## In Workshop Maintenance Type

	MT 5	MT 6	Options
<b>Low voltage</b>	<ul style="list-style-type: none"> <li>• Electrical expertise</li> <li>• Mechanical expertise: DE and NDE antifriction bearings replacement, or for sleeve bearings, shell bearings clearance control and sealing replacement</li> <li>• Dynamic tests</li> </ul>	<p><b>MT 5</b></p> <p>+</p> <ul style="list-style-type: none"> <li>• Disassembly</li> <li>• Cleaning</li> <li>• Varnishing</li> </ul>	<ul style="list-style-type: none"> <li>• Stator / Rotor repair or replacement</li> <li>• Stator / Rotor new VPI impregnation (12 months winding warranty)</li> <li>• Semi conductive and conductive paint application</li> </ul>
<b>Medium and high voltage</b>	<ul style="list-style-type: none"> <li>• Electrical expertise</li> <li>• Mechanical expertise: DE and NDE antifriction bearings replacement, or for sleeve bearings, shell bearings clearance control and sealing replacement</li> <li>• Cleaning</li> <li>• Varnishing</li> <li>• Partial discharges and tangent delta measurements</li> <li>• Dynamic tests</li> </ul>	<p><b>MT 5</b></p> <p>+</p> <ul style="list-style-type: none"> <li>• Inversion of the stator phases</li> <li>• VPI impregnation stator (12 months winding warranty)</li> </ul>	<ul style="list-style-type: none"> <li>• Rotor balancing</li> <li>• Shaft and endshield bushing repair</li> <li>• On load tests</li> <li>• Generator upgrades</li> <li>• Generator replacement</li> <li>• Rental generator</li> </ul>



## Digitalization

### AVR UPGRADES

- Finer regulation ( $\pm 0.25\%$  accuracy)
- Transferrable configuration files
- Parameters visualization
- Programmable digital & analog inputs/outputs
- Supervision with remote monitoring

### GENOSYS - FAULT PREDICTION - IoT

- Remote monitoring
- Fault/failure prediction
- Asset management
- Operating cost reduction
- Data recording and reports



## Training

We can provide standard training from our catalog or personalized according to your needs, in our or your facilities.

## LEROY-SOMER & CENTRAL GROUP AT YOUR SERVICE

**CENTRAL GROUP has partnered with LEROY-SOMER to provide certified repair and maintenance for your alternator. The partnership means the high-quality Nidec Leroy-Somer certified alternator service is now available to customers in the UK and Ireland.**

The provision of joint expertise means that your business will benefit from:

- Certified on-site & workshop services for Leroy-Somer alternators
- Support & upgrade of voltage regulators and genset controllers
- Certified on-site or on-line predictive maintenance
- Supply of genuine spare parts

### Contact us!

**CENTRAL GROUP 24/7 Service Hotline:** +44(0)151 546 6000  
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Scan the QR code or go to:  
[www.lrsm.co/support](http://www.lrsm.co/support)  
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