

## ALTERNATOR SERVICES EXPERTS

Nidec Leroy-Somer offers the best workshop and onsite services for your LEROY-SOMER and KATO ENGINEERING alternators up to 35,000 kVA.

Our engineers are trained to the highest industry standards.

Only genuine spare parts are used, and all our work is conformed to the quality standards to guarantee the performance and availability of your alternators.



### On-site Maintenance Type

MT 0	MT 1	MT 2	MT 3	MT 4
INSTALLATION & COMMISSIONING	ELECTRICAL STATIC MAINTENANCE	DYNAMIC MAINTENANCE	MECHANICAL MAINTENANCE	OVERHAUL
<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>
Options	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
Low voltage	<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>	<b>MT 5</b> + <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>
Medium and high voltage	<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>	<b>MT 5</b> + <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 AT YOUR SERVICE

**LEROY-SOMER is the global leader for alternators up to 35,000 kVA. Our Services & Maintenances workshops for the range of low, medium and high voltage alternators are located in our factories in Angoulême and Orléans in France and Olomouc in Czech Republic.**

Like all our production plants, the Services & Maintenances departments are certified ISO 9001 and ISO 14001, and also accredited to respond in numerous situations, including nuclear applications. Our consultants are competent technicians, with considerable experience, who can respond quickly to your call.

We can also offer fast, efficient support worldwide and if necessary can call on our qualified local partners.

### Contact us!

#### Nidec Leroy-Somer - Electric Power Generation

Angoulême: +33 (0)5 45 64 43 85 - Orléans: +33 (0)2 38 60 99 08 - France

#### Nidec Industrial Automation UK Ltd

+44 169 555 1 989 - stan.smith@mail.nidec.com

[www.nidecgenerators.com](http://www.nidecgenerators.com)

Scan the QR code or go to:

[www.lrsm.co/support](http://www.lrsm.co/support)

service.epg@leroy-somer.com

