



## ELECTRIC POWER GENERATION



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INDUSTRIAL, CUSTOM-ENGINEERED AND  
SPECIAL ALTERNATORS FOR ALL APPLICATIONS

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**LEROY-SOMER™**  
**KATO ENGINEERING™**

***Nidec***  
All for dreams

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# GENERATING

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## A POWERFUL FUTURE

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Nidec Leroy-Somer Electric Power Generation is the global leader for alternators from 10 kVA to 35,000 kVA.

We provide alternators for generator set manufacturers and power producers worldwide.

Every day, our products help secure access to power for thousands of people, for the safety and peace of mind of everyone.

We offer solutions for all standby and prime applications, from pioneer industrial outposts and ships to busy commercial zones and lively neighborhoods.

With over 3000 employees and a global footprint in over 40 countries, we're never far from you.

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**TWO STRONG BRANDS:  
LEROY-SOMER & KATO ENGINEERING**

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**INDUSTRIAL ALTERNATORS  
FOR GENERATOR SETS**

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**CUSTOM GENERATORS  
FOR ALL POWER GENERATION  
PROJECT TYPES**

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**DEDICATED SOLUTIONS  
FOR OIL & GAS, MARINE, RAIL  
AND MORE**

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**WORLDWIDE  
SERVICE NETWORK**

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# NIDEC CORPORATION

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FOR EVERYTHING THAT SPINS AND MOVES

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**GLOBAL #1 IN ELECTRIC MOTORS**

Founded in 1973 by President & Chief Executive Officer Shigenobu Nagamori, Nidec has worked its way up to become the world's No.1 manufacturer of small precision motors. In the process, Nidec has gradually expanded its product lineup to include a variety of small to large motors, application products for machinery, and electronic and optical components.



**€15 BILLION SALES**



**OVER 100,000 EMPLOYEES WORLDWIDE**



Today, Nidec products are used in a wide range of applications and devices including information and telecommunications equipment, office equipment, home appliances, automobiles, industrial equipment, and environmental energy.

**«For Everything that Spins and Moves»**, the Group is creating next-generation drive technologies to meet the needs of the society.

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## TRUSTED POWER GENERATION EXPERTS

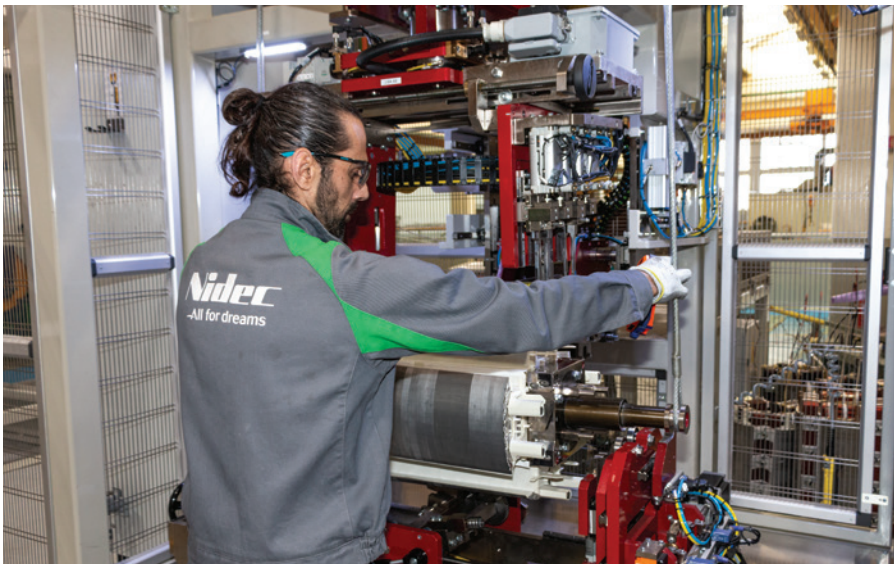
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Since 1919, Leroy-Somer has grown to become the world's preferred provider of industrial alternators for generator sets.

At the source of this tremendous achievement is our continuous commitment towards technical excellence and customer empowerment.

We strive not just for your satisfaction, but also for your own business development.

This is the Leroy-Somer difference.



**INDUSTRIAL ALTERNATORS FOR GENERATOR SETS MANUFACTURERS**

**CUSTOM-ENGINEERED MEDIUM AND HIGH VOLTAGE GENERATORS**

**DEDICATED TEAMS FOR HYDRO AND WIND POWER**

**DEEP KNOWLEDGE OF NUCLEAR EMERGENCY POWER**

**GRID CODE COMPLIANT PRODUCT RANGE AND EXPERTISE**



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## **KATO ENGINEERING™**

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### DEPENDABLE POWER GENERATION FOR PIONEERING INDUSTRIES

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At Kato Engineering, we are proud of our 96-year tradition of design and manufacturing excellence and innovation. We employ about 400 people in our 345,000 sq-foot facility in Mankato, Minnesota, with in-house research & development, and design engineering. Our ruggedly constructed generators have survived the harshest environments, and our commitment to meeting customer needs has made the Kato name synonymous with dependable power generation worldwide.



**Custom-engineered  
alternators  
for standard  
& specialized  
applications**



**Extensive  
oil & gas  
capabilities**



**Traction  
alternators  
for rail and  
hauler trucks**



**Motor-generator  
sets for power  
conversion and  
stability**



**Solutions for  
marine and  
Navy ships**

# PRODUCTS OVERVIEW

## INDUSTRIAL RANGE

### LSA

Standard & critical applications  
50/60 Hz - 10 to 4000 kVA

### LSAH

Cogeneration  
& critical applications  
50/60 Hz - 10 to 75 kVA

### LSAM

Marine applications  
50/60 Hz - 10 to 2400 kVA

### TAL

Standard applications  
50/60 Hz - 10 to 1000 kVA

### TRACTELEC

Agriculture  
50/60 Hz - 15 to 66 kVA

### LSAC

Grid connected  
& cogeneration  
50/60 Hz - 10 to 1400 kVA

## CUSTOM P

LSA: 10 to 35,000 kVA -  
Horizontal & Vertical -

### RECIPROCATING ENGINES

Diesel & Gas  
High speed  
& low speed

### HYDRO TURBINES

Horizontal & vertical  
All turbine types



## PRODUCTS

– 50/60 Hz – 4 to 24 poles  
– I01 & IC6 & IC8

### STEAM & GAS TURBINES

High speed

### WIND TURBINES

Fixed or variable speed

### NUCLEAR POWER PLANTS

Emergency gensets



## DEDICATED PRODUCTS

### TRACTION ALTERNATORS

for trucks  
& locomotives  
100 to 6000 kVA

### VARIABLE SPEED

for Telecom, Marine  
& Wind power  
5 to 10,000 kVA

### MOTOR- GENERATOR SETS

Line conditioning,  
transformer testing  
Frequency conversion  
1000 to 25,000 kVA

### SYNCHRONOUS CONDENSER

for grid stabilization  
1000 to 20,000 kVA

### ATEX ALTERNATORS

Totally enclosed  
alternators ATEX certified  
for explosive atmospheres,  
for Oil & Gas applications  
1000 to 35,000 kVA

### 400 HZ

Aviation ground power  
16 to 400 kVA



**KATO ENGINEERING™**

**LEROY-SOMER™**

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## SERVICE & SUPPORT

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A GLOBAL NETWORK OF EXPERTS AT YOUR SERVICE

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We pride ourselves on matching our high product quality with an equally high level of service throughout product life. For all your alternator service needs, you can trust in the support of our team of electric power generation experts to optimize your machines' reliability and efficiency.

Our staff knows power generation operations inside out and will spare no effort to provide you with the best value service to optimize your cost of ownership on all machine types, including third-party alternators.



- ON-SITE INTERVENTIONS FOR INSPECTION & REPAIR
- EXPERT DIAGNOSTICS
- PREVENTIVE AND SCHEDULED MAINTENANCE CONTRACTS
- GENUINE SPARE PARTS
- FACTORY REMANUFACTURING OR ON-SITE OVERHAUL
- TRAINING AND EDUCATIONAL PROGRAMS



## — MONITORING SOLUTIONS —

### SOLUTIONS FOR SMART POWER GENERATION SYSTEMS

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Keeping a close eye on any power generation asset is key to guarantee its longevity and performance. We offer several solutions to record, store, share and analyze any relevant alternator data. These data can be used during maintenance to optimize operations or to help identify the root cause of a failure.

GenOSys™, our remote power system management solution, is designed around a proprietary platform that can collect & process all types of data involved in power generation (currents, voltages, resistances, temperatures, vibrations, fuel consumption, etc.).

This system enables real-time management of remote assets. It also capitalizes on the data backlog to build analytics and scenarios that can be used to anticipate faults for predictive maintenance, or to optimize system efficiency.



**GenOSys remote power  
system management  
solution**



**Dedicated  
team and experts**



**Scalable solutions  
for offline data  
logging**

# WORLDWIDE FOOTPRINT



## USA

### **NIDEC KATO ENGINEERING INC.**

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FUZHOU  
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LV – MHV

BANGALORE  
& HUBLI  
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LV – MHV

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**LEROY-SOMER™**  
**KATO ENGINEERING™**

[www.leroy-somer.com/epg](http://www.leroy-somer.com/epg)

Connect with us at:



**Nidec**  
All for dreams

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