



ELECTRIC POWER GENERATION

INDUSTRIAL AND CUSTOM-ENGINEERED
ALTERNATORS FOR ALL APPLICATIONS

Nidec
All for dreams

KATO ENGINEERING™
LEROY-SOMER™

GENERATING

A POWERFUL FUTURE

Nidec, with its Kato Engineering and Leroy-Somer brands is the global leader for alternators with a current range of 10kW to 25MW. 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 3500 employees and a global footprint in over 40 countries, we're never far from you.

TWO STRONG BRANDS:
LEROY-SOMER & KATO ENGINEERING

INDUSTRIAL ALTERNATORS
FOR GENERATOR SETS

CUSTOM GENERATORS
FOR ALL POWER GENERATION PROJECT
TYPES

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

WORLDWIDE
SERVICE NETWORK



NIDEC CORPORATION

FOR EVERYTHING THAT SPINS AND MOVES



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 and alternators, application products for machinery, and electronic and optical components.



\$15 BILLION SALES



107 062 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», Nidec is creating next-generation motor and power generation technologies to meet the needs of the society.



TRUSTED POWER GENERATION EXPERTS

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 DATA CENTER POWER REQUIREMENTS

GRID CODE COMPLIANT PRODUCT RANGE AND EXPERTISE



KATO ENGINEERING™

DEPENDABLE POWER GENERATION

At Kato Engineering, we are proud of our 95-year tradition of design and manufacturing excellence and innovation. We employ approximately 400 people in our 350,000 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 Mine
Haul trucks



Motor-generator
sets for power
conversion and
stability



Solutions for
Marine and Navy
ships

PRODUCTS OVERVIEW

INDUSTRIAL RANGE

TAL RANGE

All-purpose performance
50 / 60 Hz
10 – 1000 kVA

LSA RANGE

Special applications
50 / 60 Hz
10 – 4000 kVA

LSAM

Marine applications
50 / 60 Hz
10 – 2400 kVA

LS AMERICAS

Custom configuration
50 / 60 Hz
Up to 6250 kVA

CUSTOM PRODUCTS

FOR ALL PRIME MOVERS

STEAM & GAS

TURBINES
High speed
Up to 15kV / 25 MW

WIND TURBINES

Fixed or variable speed
Up to 11kV / 10 MW

DATA CENTERS

Backup Power
Low Transient Reactance
Up to 4 MW

RECIPROCATING ENGINES

Diesel & Gas
High speed & low speed
Up to 15kV / 20 MW

HYDRO TURBINES

Horizontal & vertical
All turbine types
100 kVa - 20 MW

DEDICATED PRODUCTS

TRACTION ALTERNATORS

For trucks & locomotives

MOTOR-GENERATOR SETS

Line conditioning,
Transformer testing
Frequency conversion

VARIABLE SPEED

For Telecom towers

TOTALLY ENCLOSED

IP 55 & ATEX
For Oil & Gas applications

400 HZ

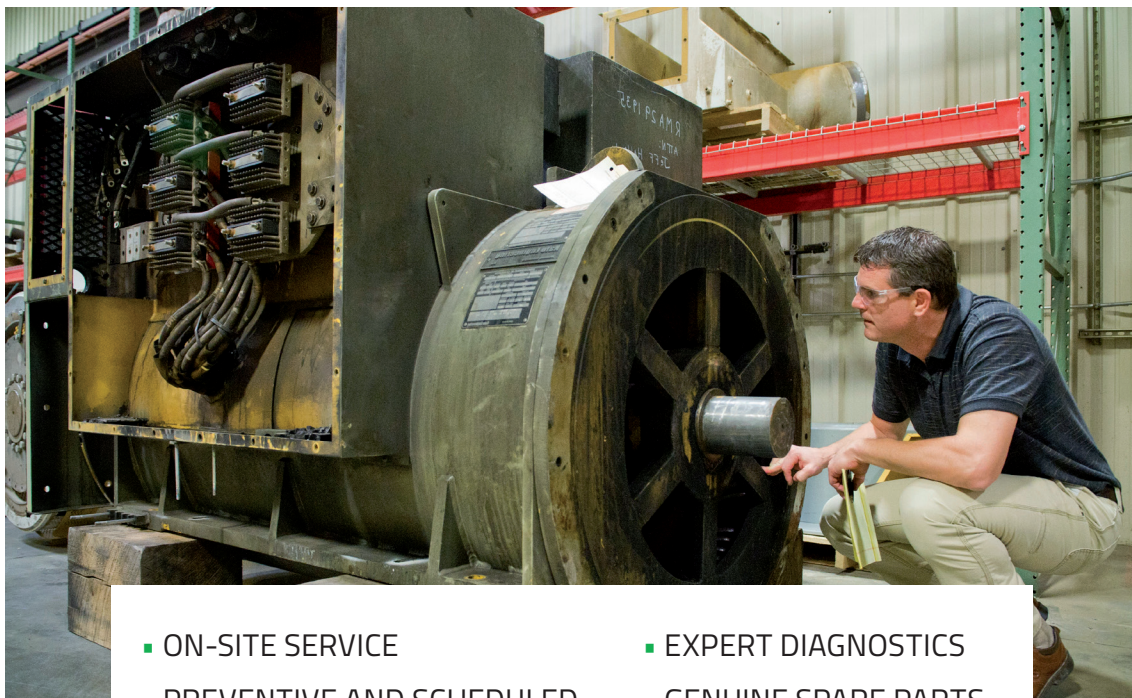
Aviation ground power

SERVICE & SUPPORT

A GLOBAL NETWORK OF EXPERTS AT YOUR SERVICE

At Kato Engineering and Leroy-Somer we pride ourselves on matching our high product quality with an equally high level of service throughout product life. For all of 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 SERVICE
- PREVENTIVE AND SCHEDULED MAINTENANCE CONTRACTS
- FACTORY REMANUFACTURING OR ON-SITE OVERHAUL
- EXPERT DIAGNOSTICS
- GENUINE SPARE PARTS
- TRAINING AND EDUCATIONAL PROGRAMS

TRAINING SUPPORT

KATO ENGINEERING OFFERS ONLINE EDUCATIONAL RESOURCES COVERING A BROAD RANGE OF ELECTRIC POWER GENERATION TOPICS.

WWW.KATOENGINEERING.COM/TRAINING

GenSchool In-Person Events

Sign up to receive updates regarding our in-person and virtual GenSchool offerings.



Webinars On-Demand

Visit our Webinars On-Demand section on our website for our latest webinars.

 WEBINAR SERIES Find Your Bearings (2020)	 WEBINAR SERIES Generator Jargon (2019)	 WEBINAR SERIES Properly Sizing Your Generator (2018)	 WEBINAR SERIES Testing 1 2 3 ... (2020)
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GenSchool Shorts

GenSchool Shorts is a new informational short-video series exploring a wide variety of power-gen topics. The videos in this series are a sampling of topics at one of our 2-day, in-person, GenSchool events.

 This segment topic: Total Enclosed Air-to-Air Cooling	 This segment topic: Bearing Design	 Half-wave rectification Full-wave rectification Diodes	 Simple manual field excitation devices Automatic voltage regulators Voltage Regulators
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WORLDWIDE FOOTPRINT



FACTORIES ● SALES & SERVICES OFFICES ●

US

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KATO ENGINEERING™
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Nidec
All for dreams

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