

Know-how & Expertise



Reliability and service life

The reliability of Leroy-Somer solutions is due to proven and tested construction choices, including:

- Balancing classes that significantly reduce internal vibrations
- Electrical and mechanical dimensioning incorporating a thermal reserve to increase the service life of the windings
- Special surface treatments for increasing resistance to harsh environments
- Very high degree of concentricity of the bearing unit to increase the service life of the bearings
- High-efficiency solutions that reduce the temperature rise in the motors and increase their service life

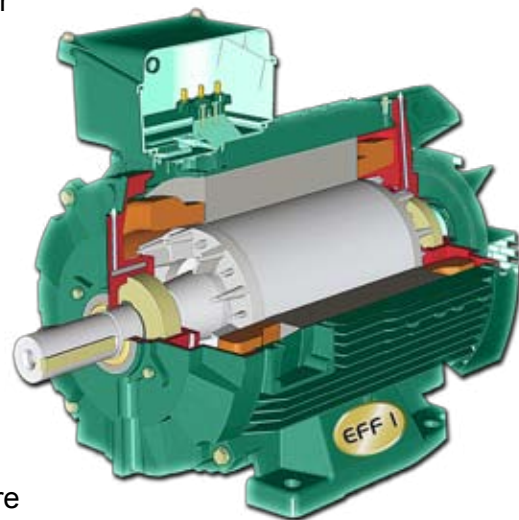
Tried and tested technologies

To meet the expectations of manufacturers, operators and engineers, Leroy-Somer is at the forefront of fixed or variable speed drive technologies.

Leroy-Somer solutions guarantee optimum torque performance, fully matching application requirements.

The electrical and mechanical dimensioning of auxiliary drive systems allow machines to be installed in confined spaces.

Permanent magnet drive system solutions, integration of control electronics, and the choice of liquid cooling are alternatives for achieving still higher levels of compactness.



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A network of specialists at your service

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AUXILIARY DRIVE SYSTEMS FOR WIND TURBINES

0.25 to 11 kW





Leroy-Somer, a world specialist in alternators and drive systems

Leroy-Somer is a recognised expert in the design and production of wind turbine generators of up to 5 MW, and is also a major player in the design and manufacture of tower crane orientation systems.

This combination of know-how and wealth of experience explains Leroy-Somer's increasing share in the market for special application drive systems for wind turbine auxiliary equipment.

The involvement of the R&D departments results in innovative and reliable solutions meeting the requirements of this sector.

With its industrial sites in Europe, North and South America and Asia, Leroy-Somer is well-placed in high-growth markets for supporting its customers' international development.

With the strength of its 10,000 employees behind it, the company has set up an international network of 470 expertise and service centres capable of providing sales and technical support throughout the world.



■ 38 industrial sites throughout the world

■ 470 centres of expertise and service



"Pitch": orientation of the blades

- Motors for hydraulic power units
- Brake motors for mechanical drive



Lubrication

- Oil pump motors for lubrication of the gearbox
- Fixed or variable speed drive



Cooling

- Fan motor for generator cooling circuit
- Fixed or variable speed drive



Fixed speed motors

- High efficiency
- Single or dual speed, ventilated or non-ventilated
- High specific output power solutions
- Reduced risks of condensation
- Increased corrosion resistance



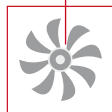
Integrated variable speed motors

- Torque control and stability at low speed
- Energy saving
- Electronics integrated with the motor
- 50/60 Hz universal solution
- Electronics moulded in resin



Brake motors

- Motor technology suited to the transient phases generated by the orientation movement
- Choice of braking torque and brake inertia for protecting the orientation mechanics
- Increased corrosion resistance
- Adapted for different power supply voltages



Ventilation of the nacelle

Motors and motorised fans for air treatment or temperature control



"Yaw": orientation of the nacelle

Brake motor for the nacelle orientation movement

