Leroy-Somer is a worldwide specialist in alternators and onboard drive systems.

With its longstanding expertise, the company has created an international network of 470 centres of expertise and service centres capable of offering you the sales support and technical assistance you need, 24 hours a day, 7 days a week throughout the world.

Leroy-Somer is establishing industrial sites in Europe, North and South America and Asia not only to develop its presence in these booming markets but also to support your global expansion and guarantee a high performance service.

Due to our ongoing commitment to reinforce the railway division, Leroy-Somer has put together a highly skilled multidisciplinary team of engineers. This resource will allow us to undertake global project management with direct involvement of the Research and Development department. Leroy-Somer supports customers from the feasibility study through to commissioning the equipment, including the equipment testing and staff training phases.

Onboard drive systems
For more than 40 years, Leroy-Somer has supported the drive for innovation in onboard equipment for rail transport:
- 8000+ motors have been developed over the years to meet all technical challenges:
  - A.C. motors and D.C. motors
  - Electrical and mechanical design
  - Brushless and permanent magnet synchronous motors
  - Power electronics and variable speed drives
  - Magnetic couplings and fluid couplings
  - Design and manufacture of auxiliary power units

Innovative and high-quality products have been developed for traction and auxiliary equipment needs:
- Electric traction motors
- Electric auxiliary motors
- Electrical and mechanical design
- Design and manufacture of auxiliary power units

Leroy-Somer offers a comprehensive range of products and services for every application, making it easier to meet the needs of any customer.

Expertise and Innovation

The Leroy-Somer Railway Offer

Onboard drive systems for railway equipment

PULL CHAIN

Radiator cooling and drive system

For oil circuit pumps

Motor blocks

Cooling

Traction motors

Pantographs

Blowers

Cooling

ACCESSIBILITY

Doors

Opening

Access for people with restricted mobility

COMFORT

Air conditioning for passengers

Cooling units, fans and condenser fans

Air conditioning for the driver’s cab

Cooling units and condenser fans

For more than 40 years, Leroy-Somer has supported the drive for innovation in onboard equipment for rail transport:
- A comprehensive range of products and services for every application
- Electric traction motors
- Electric auxiliary motors
- Electrical and mechanical design
- Design and manufacture of auxiliary power units

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For more than 40 years, Leroy-Somer has supported the drive for innovation in onboard equipment for rail transport:

- Advancing solutions to all types of railway rolling stock, including electric, diesel, and multiple units, with focus on very high reliability products, with a service life of more than 40 years, with specific commitments with regard to MTBF and Life Cycle Cost.
- Involvement in projects to develop standards for rail drive systems, in partnership with rail operators (SNCF, RATP, etc.).

Leroy-Somer offers asynchronous and direct current motors for the rail industry, along with auxiliary equipment, on-train production, and easy access platforms. Our engineers have developed a range of railway motors consisting of 3 levels, taking into account electrical and mechanical constraints that affect the operation of these motors in extreme environments, such as vibrations, shocks, and high temperatures.

This offer is based on:
- Our experience obtained from over 350,000 motors in operation
- Complete range of insulation systems using partial discharge tests, to a high standard suitable for rail stock.
- Exceptional systems for propulsion, traction, and auxiliary equipment.

Air conditioning for passengers: Cooling fans, condenser fans, and evaporator fans.
Air conditioning for the driver’s cab: Cooling units, fans, and condenser fans.

Expertise and Innovation

Benefitting from modern production facilities and high-level Research and Development centres that envision the drive systems of tomorrow, Leroy Somer is exploring all possible innovation channels and technologies to enable energy savings, reduced maintenance, and new challenges from the market.

Leroy-Somer is the world leader in the manufacturing and supply of electric motors and auxiliary equipment, delivering an unrivalled standard of service for getting the most from your electric systems, with support on the road, through 30 subsidiaries around the world.
Onboard drive systems for railway equipment

For more than 40 years, Leroy-Somer has supported the drive for innovation in onboard equipment for rail transport:

- Closely following the development of railway systems by creating long-lasting partnerships
- Keeping up with technical developments in conventional passenger trains (62 mph), through to Very High Speed Trains (TGV) (217 mph)
- Revamping solutions on all types of existing rolling stock (dimensions, power ratings, noise levels, etc.)
- Solutions to thermal, mechanical, electrical constraints, plus those affecting logistics and standards, for all the major international programmes: EMU, DMU, Urban and Suburban, locomotives, TGV
- Technological change of the power supply for D.C. motors to asynchronous current via high-demand IGBT converters.
- Very high reliability products, with a service life of more than 40 years, with specific commitments with regard to MTBF and Life Cycle Cost
- Involvement in projects to develop standards for rail drive systems, in partnership with rail operators (SNCF, RATP, etc.)

Leroy-Somer offers asynchronous and direct current motors for the rail industry, along with auxiliary equipment, air production, door opening and access platforms. Our engineers have developed a range of railway motors consisting of 3 levels, taking into account reliability and Life Cycle Cost criteria from their conception.

This offer is based on:
- Our experience obtained from over 350,000 motors in operation
- Qualification of our insulation systems using partial discharge tests, in a harsh environment for rolling stock

Expanding its activities to the rail sector, Leroy-Somer continues to offer its expertise and innovation for the benefit of its customers on a daily basis.

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- Belgium
- France
- Germany
- Greece
- Italy
- Luxembourg
- Portugal
- Spain
- Sweden
- UK

Africa
- Algeria
- Egypt
- Ghana
- Mauritania
- Mozambique
- Senegal
- Sudan
- Zaire

Asia
- China
- India
- Malaysia
- Myanmar
- Saudi Arabia
- Taiwan
- Turkey
- Uzbekistan

 Americas
- Brazil
- Canada
- Chile
- Mexico
- USA


Leroy-Somer is a worldwide group at your service.

A worldwide group at your service

Onboard drive systems