

## Eco-friendly innovative solutions

- Speed of diesel group adjusted to load for energy savings and noise-level reduction
- Modular electronics integrated in the cabinet
- RIS.GA power supply solution for auxiliaries independent of alternator speed
- Patented CPS system (Constant Power System) for a defluxing area from 1 to 6
- Compact permanent magnet motors for integration in the wheels and drum



## Reliability

*The reliability of Leroy-Somer solutions is due to tried and tested construction choices:*

- Balancing classes that significantly reduce internal vibrations
- Electrical and mechanical dimensioning incorporating a thermal reserve to increase service life
- Very high degree of concentricity of the bearing unit to increase the service life
- Special finishes for increased resistance to harsh environments
- Reinforced winding insulation for operation with frequency inverter

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



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4465 en - 2009.11 / a



## PORT CRANES

### Energy production & drive systems





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

From power generation to motorization together with control electronics, Leroy-Somer supplies the complete drive system for port cranes.

Involvement of the R&D departments means innovative and reliable solutions that meet the demands of energy production and drive systems in the port environment.

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.

## Energy saving

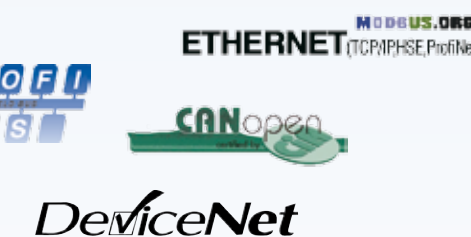
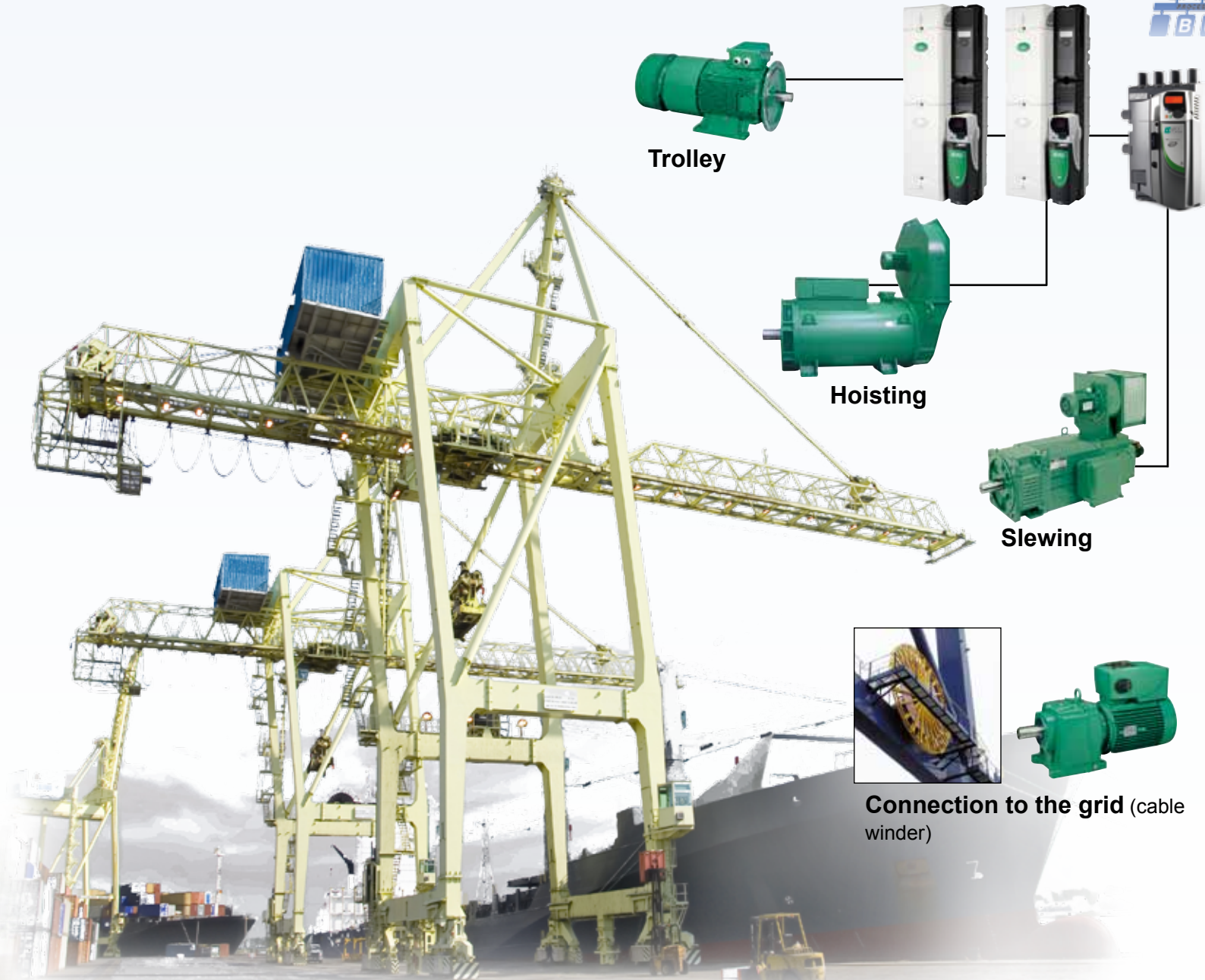
- Energy production with permanent magnet generators or variable-speed alternators
- Regenerative drives for feeding back energy to the grid
- RIS.GA. module for supplying power to auxiliaries
- Dyneo® motor-drive solutions, permanent magnet technology
- High-efficiency gear motors

## Productivity

- Variable-speed operation across a wide speed range
- Universal fieldbus modules for communication with main controller
- Advanced control over loads during travel phases
- Brake motor allowing higher dynamics

## Safety

- Range of brake motors for static hold or dynamic stop
- Electronic drives that comply with standard IEC 61800-5-2 for brake control and overspeed management
- Application of FEM (European Federation of Materials Handling) recommendations



High-efficiency and compact solutions



Permanent magnet generators



Permanent magnet motors



Permanent magnet wheel motors