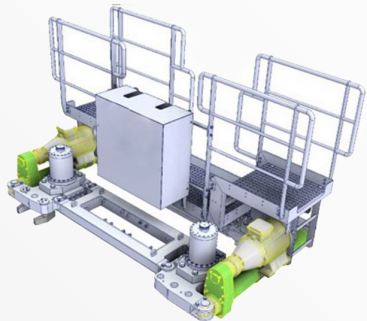


NorrDigi® EMA – Customer Cases

Electromechanical actuator

Case: Marine & Offshore



Objective:

The customer wanted to remove hydraulic lines and was looking for a solution without a risk of oil leakage. Fast implementation of retrofit solution capable of moving a heavy load on the ship's deck.

Results:

The NorrDigi EMA complete package includes motor, controller, and control logic. Enabling maintenance-free operation with an adjustable unit and precise motion control. Eliminating pressurized hydraulic hoses and pipes reduces spillage risk and improves uptime.

Case: Waste management



Objective:

Customer wanted to upgrade current hydraulic solution to increase energy efficiency and reduce noise. Lift and boom movements were replaced by NorrDigi EMA, electromechanical actuators.

Results:

Energy consumption decreased compared with the previous hydraulic solution. Thanks to EMA technology, energy can be recovered during load lowering, improving overall efficiency.

Case: Cold transportation



Objective:

The customer aimed to eliminate oil leakage risks and contamination in food transport cold containers while improving space utilization through precise motion control in pallet handling.

Results:

The NorrDigi EMA, electric cylinder was installed on the loading platform moving pallets inside the container. By replacing the existing system, space-consuming hydraulic pipes and hoses could be eliminated.

Case: Scissor lift electrification



Objective:

The aim was to replace hydraulic lifting and steering cylinders with EMA, test lift's performance and measure energy consumption for comparison with a traditional hydraulic system.

Results:

Electric cylinders were installed as a retrofit project. The electrified scissor lift was clearly faster and more precise than the original version. Energy consumption decreased by up to 50 %, doubling the operating time on a single charge.

NorrDigi® MCC – Customer Cases

Multi-chamber cylinder technology

Customer Case: Volvo



Objective:

Introduction of the NorrDigi MCC technology to the construction machinery market, revolutionizing energy efficiency and performance. The system aims to significantly reduce fuel consumption and emissions, while improving machine controllability and precision.

Results:

A 50% reduction in fuel consumption, 5–12% improvement in productivity, and enhanced controllability.

Customer Case: Aberdeen



Objective:

To introduce NorrDigi MCC technology to the U.S. oil and gas market to enhance energy efficiency and process control in demanding conditions.

Results:

55–60% improvement in productivity, 50% reduction in CO₂ emissions, and more precise controllability.

Customer Case: Material Handling



Objective:

To leverage NorrDigi MCC technology in forklift applications to maximize energy efficiency and reduce operating costs.

Results:

Up to 70% energy savings, and more precise and efficient power control, which enhancing machine performance.

Contact for more information: sales@norrhydro.com

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