



REGAMOTION®
A PART OF REGAL COMPONENTS

Regamotion Electrified hydraulics

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Electrified hydraulics

Regamotion e-hydraulics is battery electric power for on-board hydraulics. E-hydraulics can be used for electric operation of a loader cranes, refuse compactors or other equipment with the combustion engine turned off.

QUIETER

With an electric power unit, it's an option to turn off the diesel engine instead of idling at the work site, which drastically reduces the noise level. Electrified hydraulics also offer more precise and optimized flow regulation which also contribute to lower noise levels.

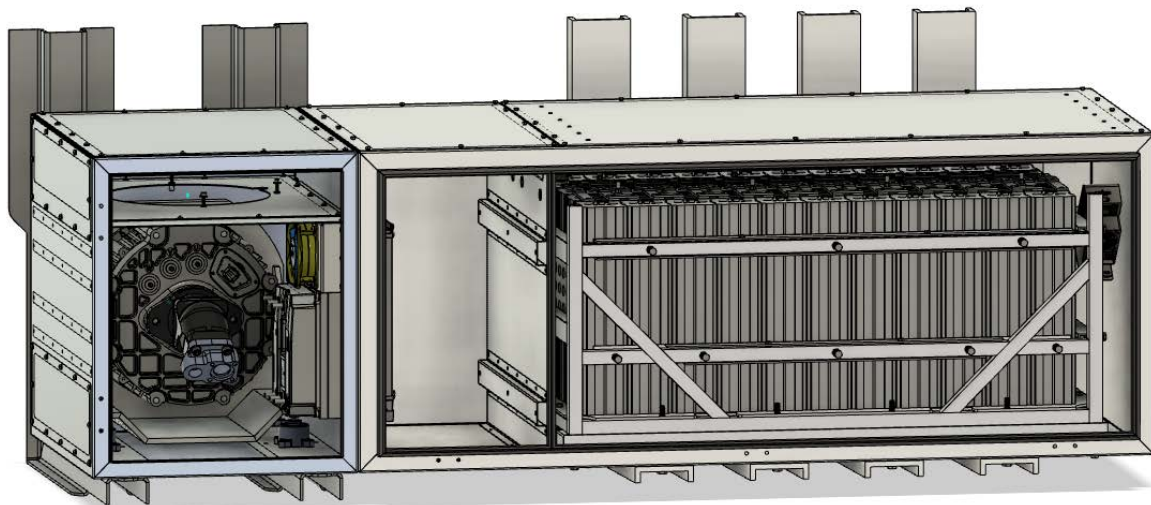
CLEANER

Lower combustion emissions are good for both the global and our local environment and lower noise levels contribute to less noise pollution in urban and other sensitive areas. Which leads to a safer workplace and less disturbance to the surrounding area.

SMARTER

E-hydraulics is more responsive than conventional solutions and provides maximum torque instantly, even at low speeds. It's also possible to only activate part of the system. In this way, you can generate flow only in the parts that require the energy for a movement.





How does it work?

Regamotion e-hydraulics is a complete solution for electrified hydraulics and hybrid integration. With solutions ranging from a complete system with battery pack, electric motor, hydraulic pump and a sophisticated control system to parts of a system depending on customer specific needs.

SYSTEM DESIGN

Our solutions build on hydraulic pumps connected to servo motors with integrated speed and torque feedback for flow and pressure control. The system can be equipped with position or pressure sensors for closed loop control made directly in the rugged pump motorcontroller.

FULL DAY ELECTRIC

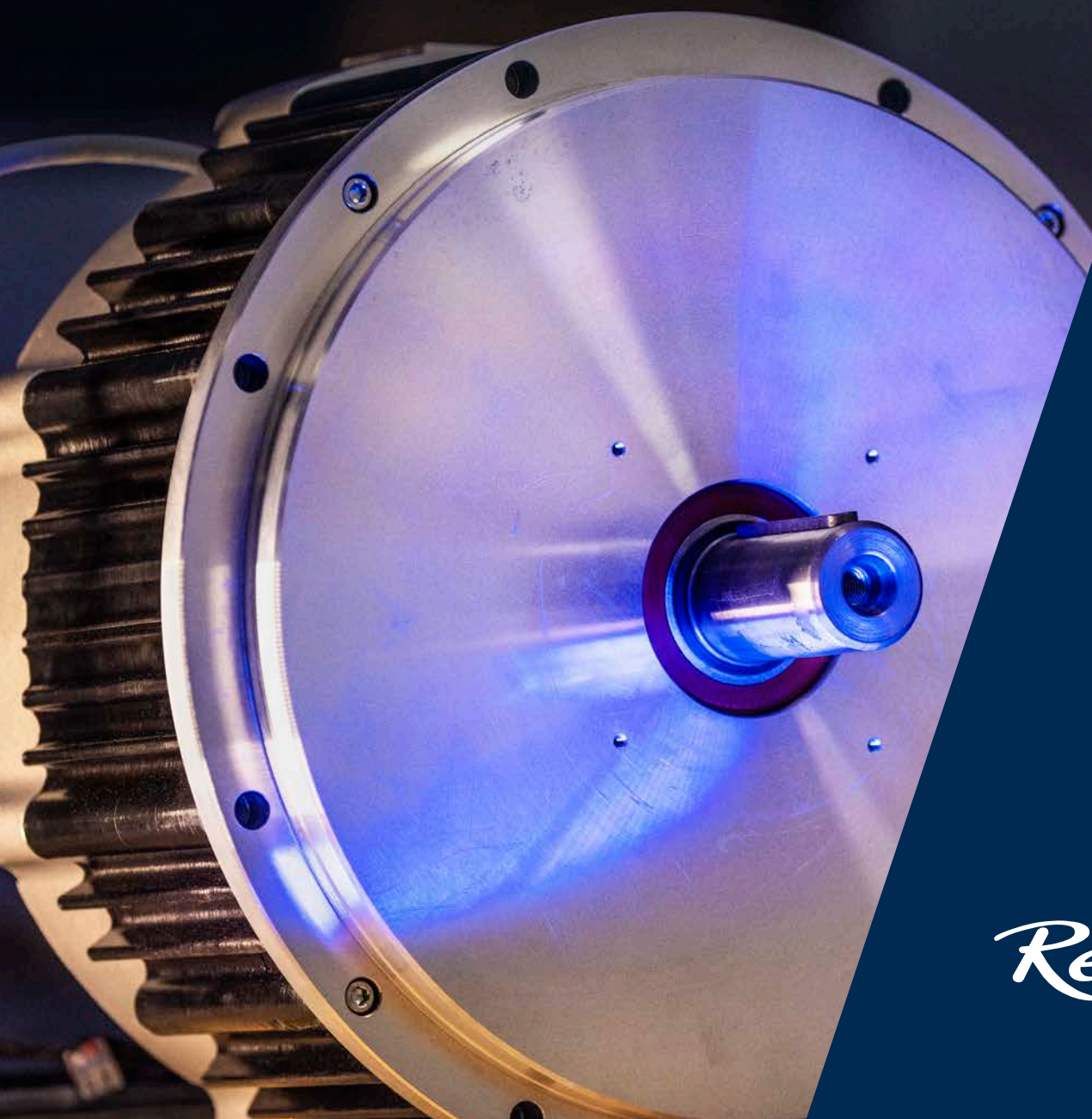
The battery capacity can be adapted to allow a full day of operation. It is easy to install batteries with sufficient capacity, as the batteries for the hydraulic system are much smaller than full-scale vehicle batteries. Smaller batteries also lower the cost for a e-hydraulic system.

CUSTOMIZED

Hydraulic systems can be designed in many ways and we love to talk about different possibilities with our clients. Our solutions are available in a wide range of sizes and power needs. Every system is unique, but with long experience we have accumulated knowhow from a wide range of applications

"Hydraulics is an obvious target when pursuing increased productivity and efficiency in vehicle design. We combine the best properties of electric and hydraulic technologies and offer complete electrified hydraulic system"

- Emil Vestman, Lead engineer.



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