

## HOW CAN

# 30% of a jelly fish's propulsion require zero energy?

An **evolved** dual vortex system, that creates thrust even when the muscles are inactive.

## Ecolifting Retrofits

Simple electrical conversions that make crane movement safer, quieter and more efficient.

**Power. Evolved.**



**AB**

Any Brand

With some limitations these products can be retrofitted to any other crane brand.

### SAFER, SIMPLER

Reduce fuel and operating costs, while ensuring a safer and quieter environment. Simple, modular installation makes this a **win-win** option.

### ADAPT AND THRIVE

Konecranes is the premier **port services** provider to brownfield terminal developments.

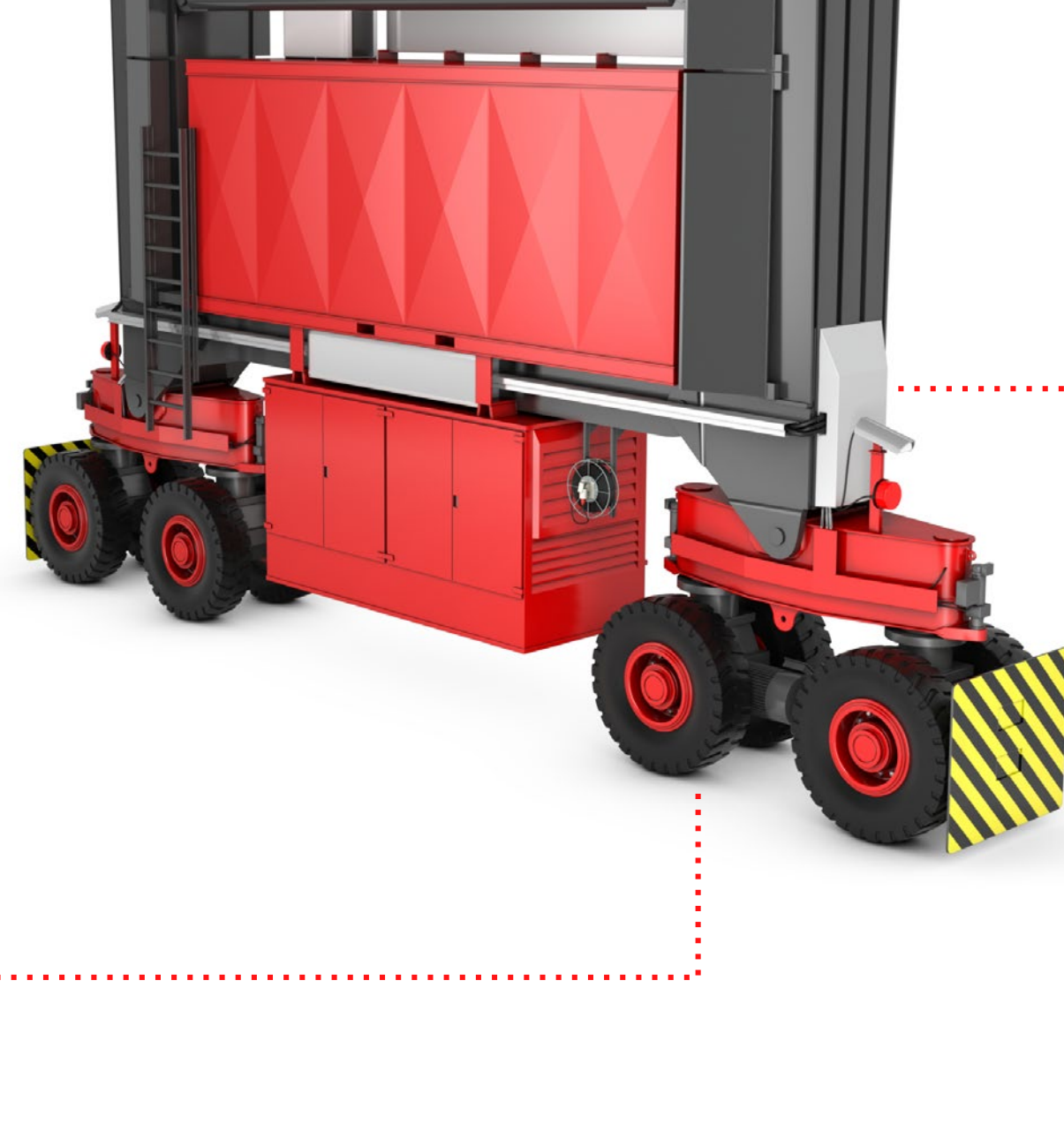
Our range of retrofit products will enable your fleet to adapt to a fast-changing environment.

Welcome to your **evolution**. Small, incremental changes that enable existing fleets to continue to adapt and thrive.



## Fuel Saver

A low cost, compact retrofit system that can save up to 30% of fuel consumption without compromising performance or comfort.



### BENEFITS

- Reduces CO2 / NOX emissions
- Lower speed produces less noise
- Components wear more slowly, so replacements are less often required
- In Fuel Saver mode the crane's RPMs drop to 50% of that in full diesel mode.
- All lighting and heating systems, e.g. cabin air-conditioning, remain fully functional during idling.



## Cable Reel

This fully electric conversion enables less fuel consumption, less maintenance, lower noise levels and fewer carbon emissions.



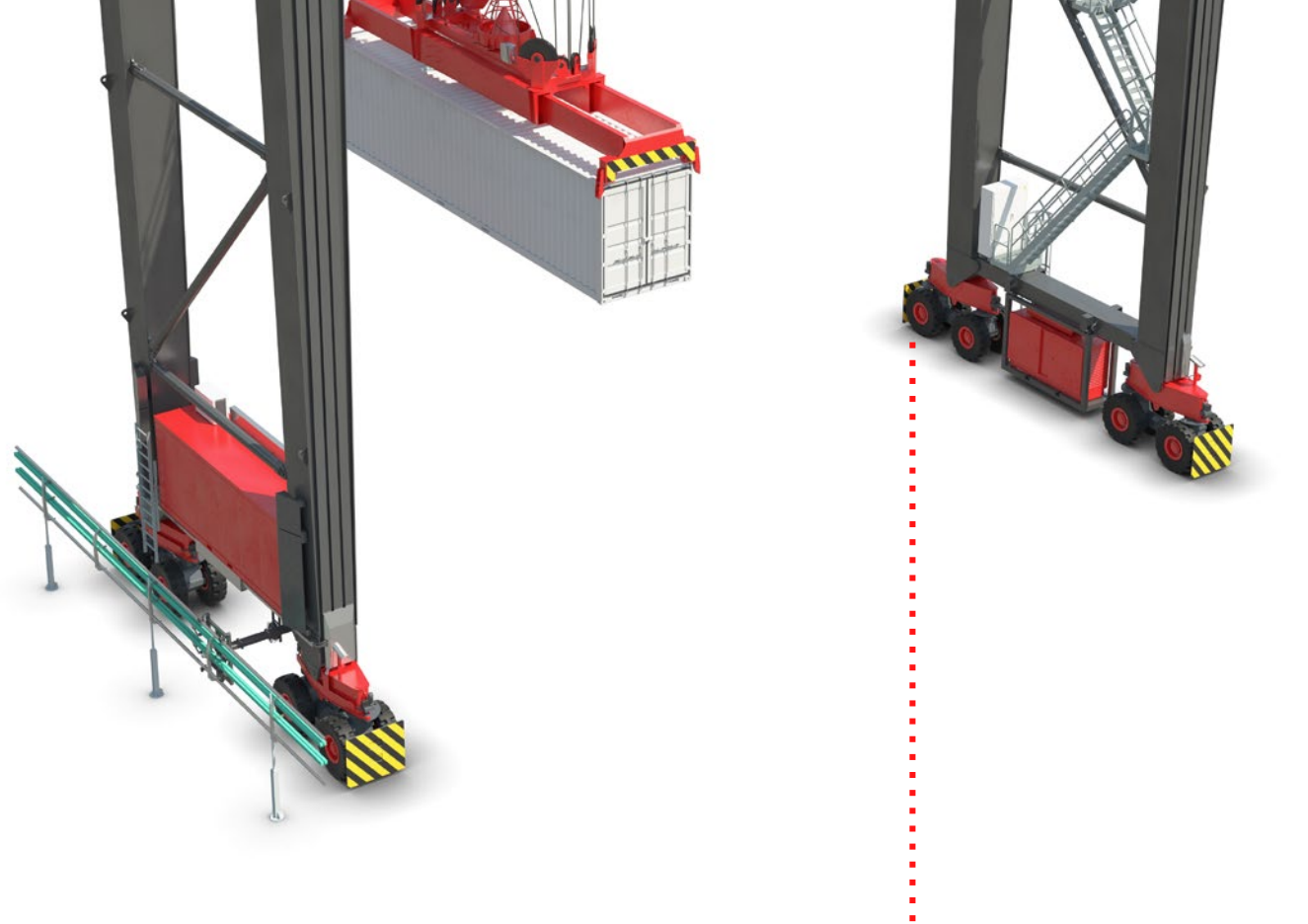
### BENEFITS

- Converts crane to 100% electric supply
- Eliminates the need for refuelling and maintenance of diesel engines
- Reduced annual running costs
- Fewer emissions and less noise.



## Busbar

A conductor rail is installed to the steel structure along a container stacking area, providing consistent electric power that is cleaner and cheaper than diesel.



### BENEFITS

- Eliminates diesel fuel consumption completely
- Eliminates time spent refuelling
- Typically 25-30% of total downtime is related to diesel engine maintenance, electrification saves those costs
- Optional: Drive In/Drive Out procedure can be automated with Konecranes proprietary "one button" feature
- Fully diesel-genset remains available as back-up and auxiliary.



## Hybrid

The Hybrid Power Pack turns a diesel RTG into a diesel-electric hybrid RTG without compromising the capacity. With the hybrid power pack, you can reduce operational costs dramatically.




### BENEFITS

- Maximize crane uptime
- Drastically reduce maintenance and running costs
- Significantly lower fuel consumption
- Increased eco-efficiency with fewer emissions and significantly lower noise levels
- Reduce time spent refuelling and maintaining diesel engines



Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. The Group has more than 16,000 employees at 600 locations in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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