**How can** contact us 30% of a jelly fish's propulsion require zero energy?

system, that creates thrust even when the muscles are inactive. Power. Evolved.

An evolved dual vortex

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

## 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.

Busbar

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.

Adapt and thrive

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
- Full diesel-genset remains available as back-up and auxiliary.



**BUSBAR POWER** 

**BRAKING** 

WITHOUT NETWORK INCL. NETWORK

**BUSBAR POWER** 

27.5 kWh

**BRAKING** 

**Fuel Savings** 

**Assumed parameters** 

needed energy /h 14,8 l/h 59.0 kWh

average load: 30t cycle: 12 boxes/h operational hours: 3600/year

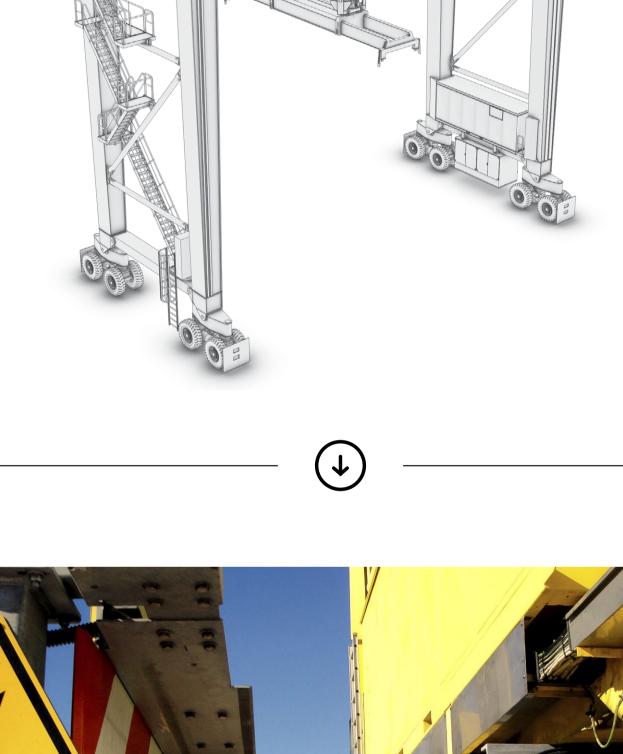
**DIESEL ENGINE** 

SPEED MODE

**POWER WITH FIXED** 

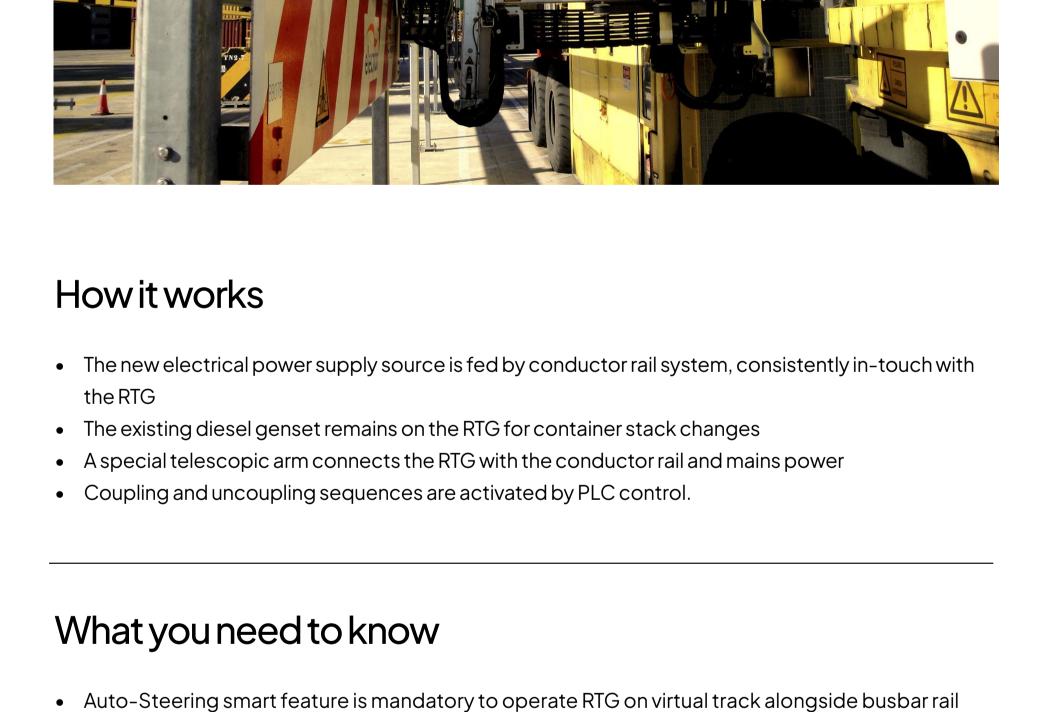
fuel cost: 95ct/l electrical energy cost: 11ct/kWh

fuel cost /h	13.50 €/h	6,50 €/h	3,00 €/h
running cost /year	47.790,-EUR	23.376,-EUR	10.749,-EUR
cost difference to diesel /year		-24.415,-EUR	-37.042,-EUR
up to% saving /year		50%	75%
This technology can be ap	oplied to any Kor	necranes RTG.	



**RTG** 

Rubber-Tired **Gantry Crane** 



Customer is required to provide supplying conductor rail voltage in same level as RTG's nominal

- all site related civil works, infrastructure works and site related equipment, such as yard busbar

### board voltage Standard values are 400V up to max 690V. If there a need to run different types of RTGs on one common conductor rail, the RTGs need to match frequency and voltage of grid power

Customer is responsible for:

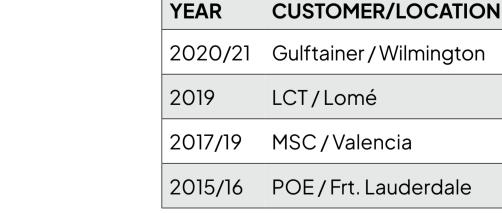
Selected References

- system, pillar boxes, transformers, breakers, etc.
- Gulftainer | Wilmington MSC | Valencia

LCT | Lomé

POE | Frt. Lauderdale

Ports. Evolved.



Konecranes is a global leader in	

**QUANTITY** 

11

9

4



a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2023, Group sales totalled EUR 4.0 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

material handling solutions, serving

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