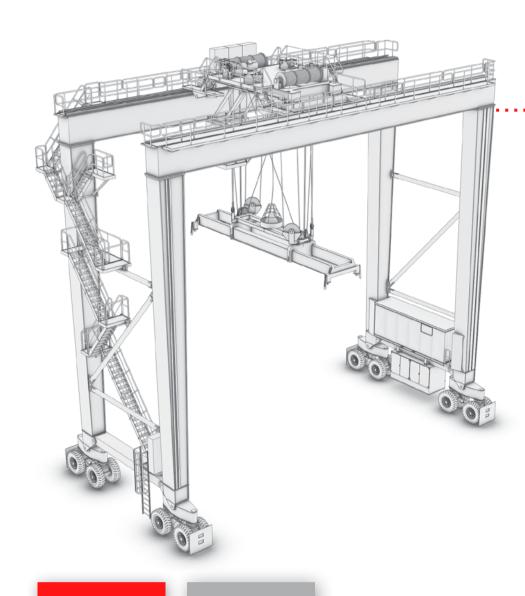
ECOLIFTING RETROFITS Busbar

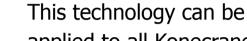
A conductor rail is installed to the steel structure along a container stacking area, providing consistent electric power that is cleaner and cheaper than diesel.





AB **Any Brand**



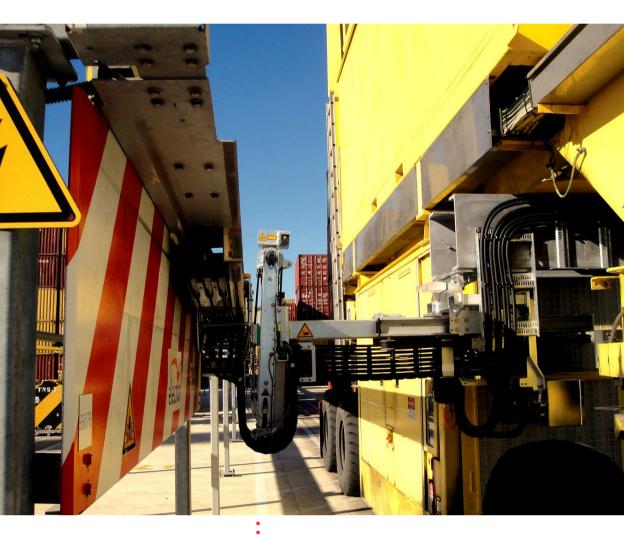


EQUIPMENT

applied to all Konecranes RTGs as well as any other crane brand.

controlled with PROFINET bus link.

RTGs should be PLC



Busbar Power

59.0 kWh

BENEFITS

consumption completely • Eliminates time spent refuelling

downtime is related to

"one button" feature

• Eliminates diesel fuel

- Typically 25-30% of total
- diesel engine maintenance, electrification saves those costs • Optional: Drive In/Drive Out procedure can be automated with Konecranes proprietary
- available as back-up and auxiliary.

Busbar Power

incl. Network

Braking

27.5 kWh

• Full diesel-genset remains

ASSUMED PARAMETERS average load: 30t cycle: 12 boxes/h operational hours: 3600/year fuel cost: 95ct/l electrical energy cost: 11ct/kWh

FUEL SAVINGS

needed energy /h

Diesel Engine Power with fixed without Network speed mode **Braking**

	, ,		
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%
HOW IT WORKS			
• The new electrical power supply s			

14,8 l/h

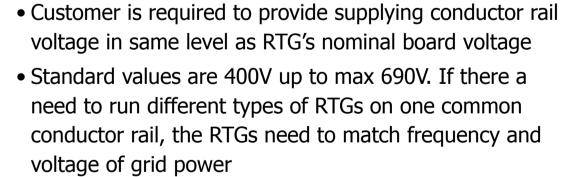
• The existing diesel genset remains on the RTG for container stack changes • A special telescopic arm connects the RTG with the

conductor rail and mains power • Coupling and uncoupling sequences are activated by

conductor rail system, consistently in-touch with the RTG

- PLC control.
- Auto-Steering smart feature is mandatory to operate RTG on virtual track alongside busbar rail
- Customer is responsible for: • all site related civil works, infrastructure works and site related equipment, such as yard busbar system,

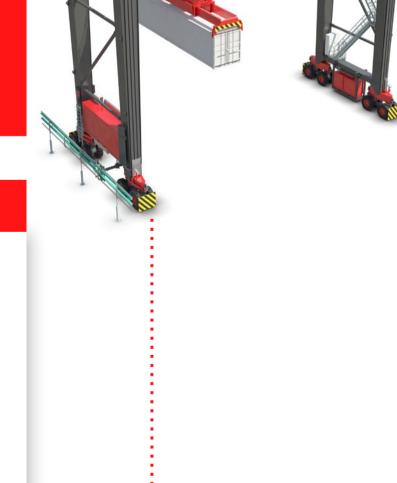
pillar boxes, transformers, breakers, etc.



WHAT YOU NEED TO KNOW

- **SELECTED REFERENCES**

POE | Frt. Lauderdale



Gulftainer | Wilmington



MSC | Valencia

Year	Customer/Location
2020/21	Gulftainer / Wilmington
2019	LCT / Lomé



2017/19 MSC / Valencia

Customer/Location | Quantity

9

11

