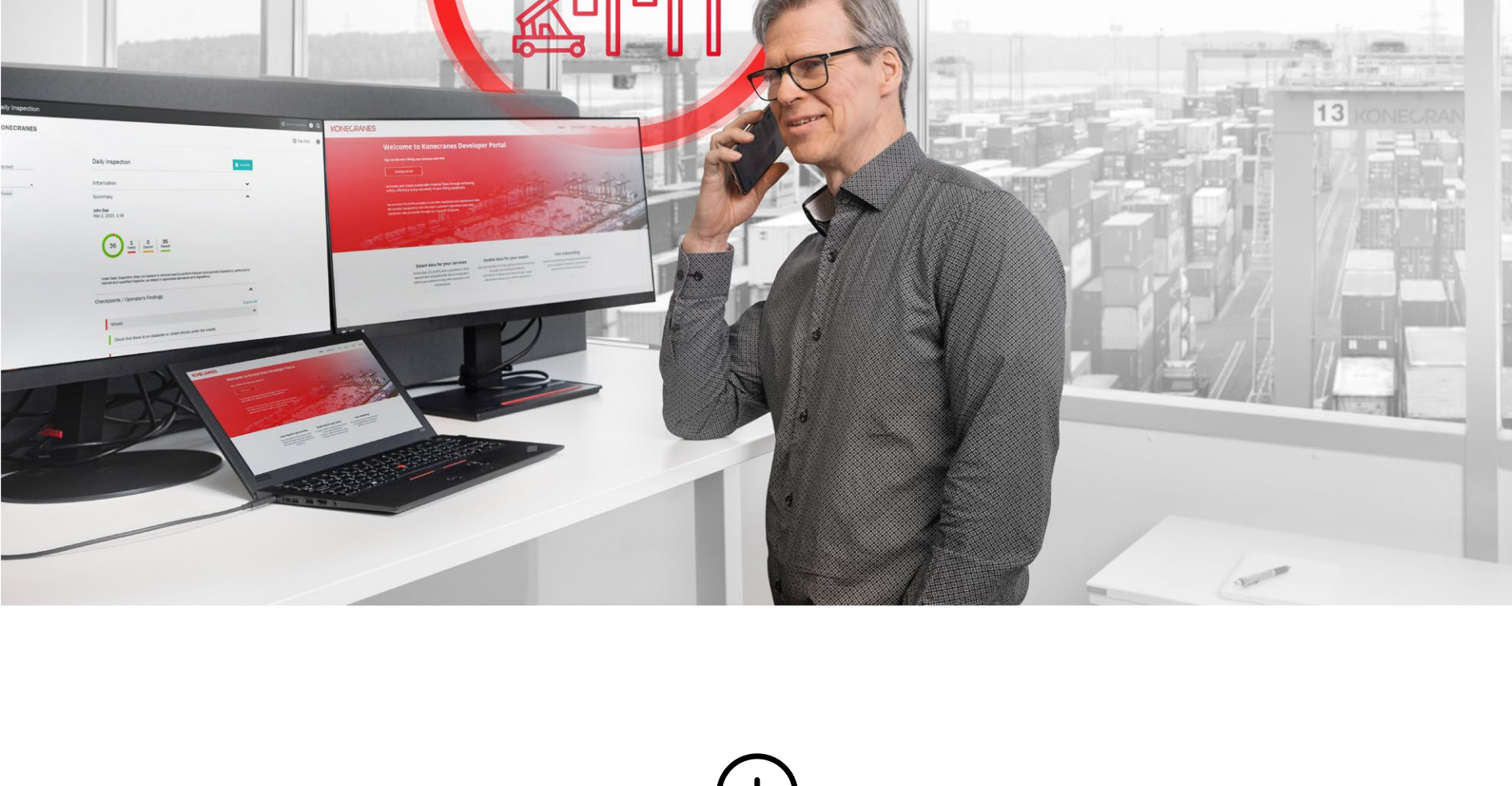


Busbar

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.

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.



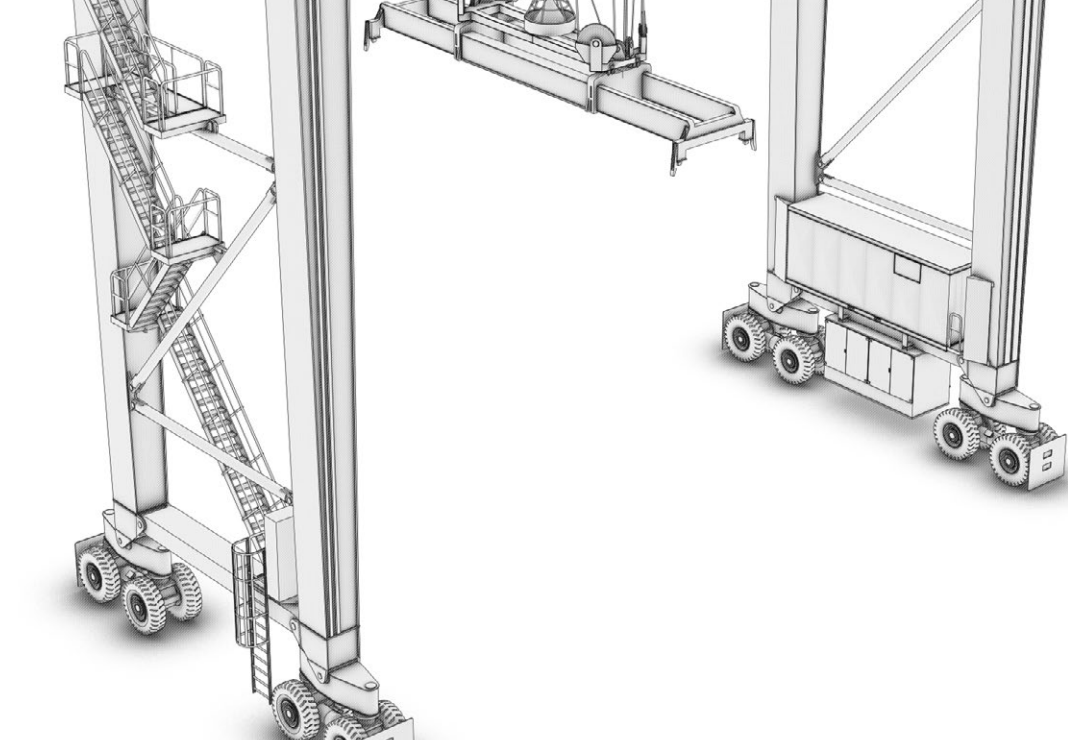
Benefits

- 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.

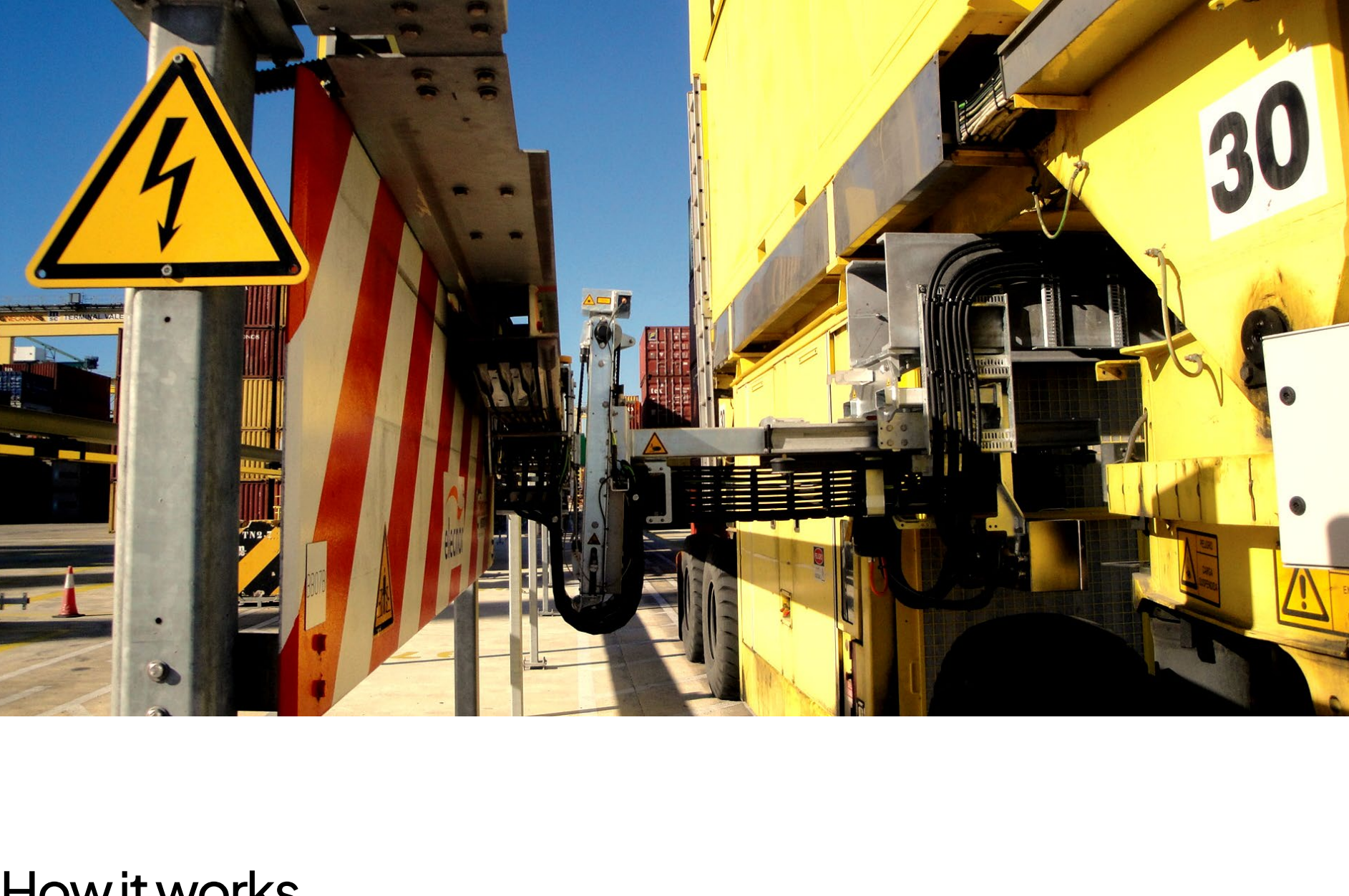
Fuel Savings

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

|                                 | DIESEL ENGINE<br>POWER WITH FIXED<br>SPEED MODE | BUSBAR POWER<br>WITHOUT NETWORK<br>BRAKING | BUSBAR POWER<br>INCL. NETWORK<br>BRAKING |
|---------------------------------|-------------------------------------------------|--------------------------------------------|------------------------------------------|
| needed energy /h                | 14,8 l/h                                        | 59.0 kWh                                   | 27.5 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%                                      |



RTG  
Rubber-Tired  
Gantry Crane



How it works

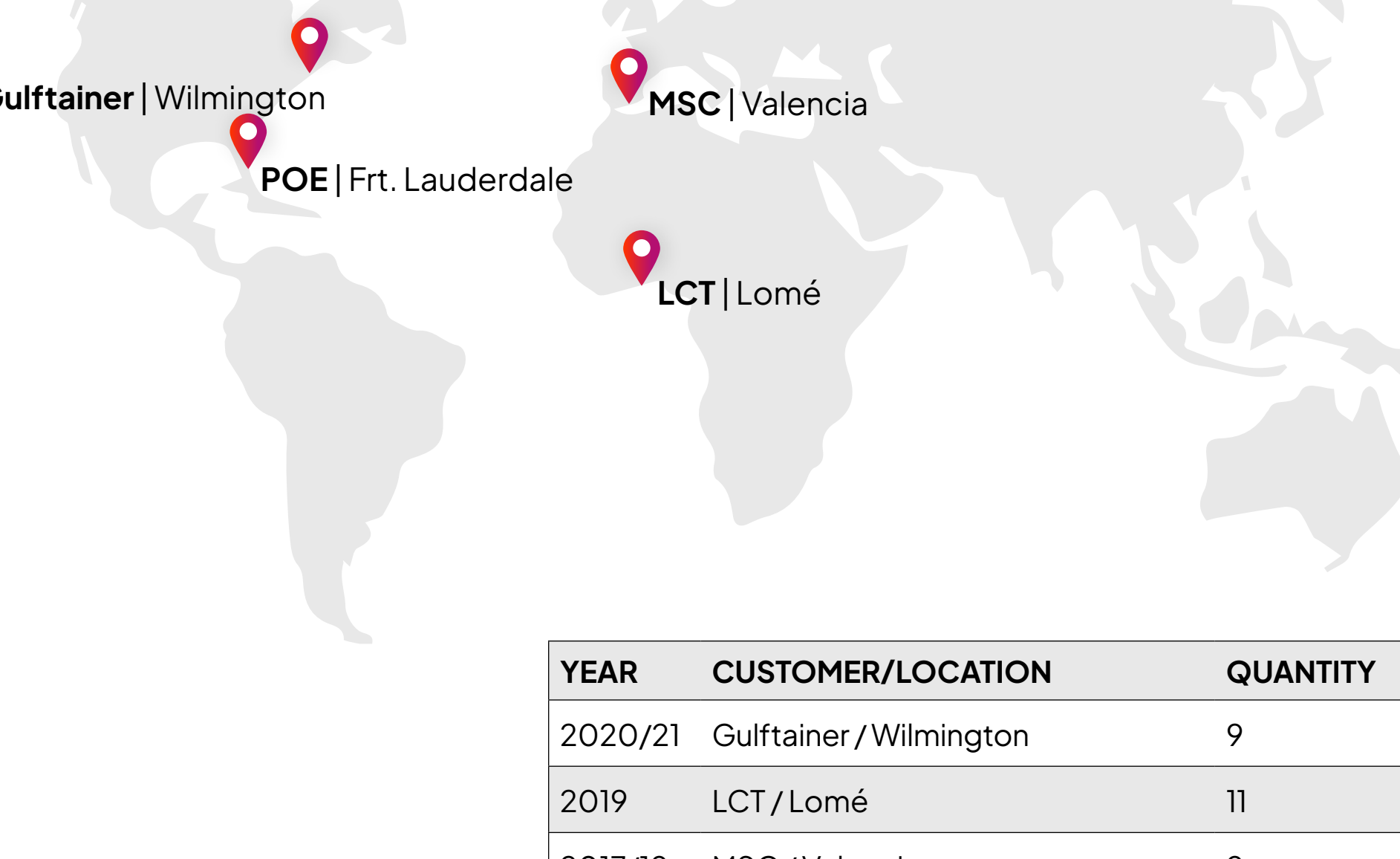
- The new electrical power supply source is fed by conductor rail system, consistently in-touch with the RTG
- The existing diesel genset remains on the RTG for container stack changes
- A special telescopic arm connects the RTG with the conductor rail and mains power
- Coupling and uncoupling sequences are activated by PLC control.

What you need to know

- Auto-Steering smart feature is mandatory to operate RTG on virtual track alongside busbar rail
- Customer is required to provide supplying conductor rail voltage in same level as RTG's nominal 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:
  - all site related civil works, infrastructure works and site related equipment, such as yard busbar system, pillar boxes, transformers, breakers, etc.



Selected References



| YEAR    | CUSTOMER/LOCATION       | QUANTITY |
|---------|-------------------------|----------|
| 2020/21 | Gulfstream / Wilmington | 9        |
| 2019    | LCT / Lomé              | 11       |
| 2017/19 | MSC / Valencia          | 9        |
| 2015/16 | POE / Frt. Lauderdale   | 4        |



Konecranes is a global leader in material handling solutions, serving 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 16,500 employees in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2025, Group sales totalled EUR 4.2 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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