

**SERVICE**

MACHINE TOOL SERVICE  
LIGHT LIFTING  
INDUSTRIAL CRANES  
PROCESS CRANES  
PORT CRANES  
LIFT TRUCKS  
YARD IT

**PORT SERVICE**

**KONECRANES®**  
Lifting Businesses™

**Fuel Saving products for RTG**  
**INCREASE EFFICIENCY**  
**AND REDUCE EMISSIONS**



# LESS FUEL, LESS NOISE, LOW EMISSIONS

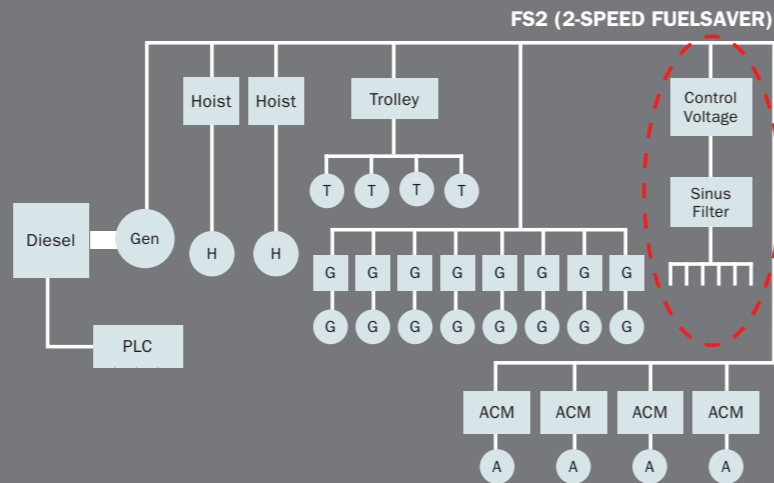
We have developed fuel saving products which helps to achieve lower fuel consumption, less noise and which also reduces the emission level of your RTG crane.

There is a lot to save with less efforts!

## FS2 (2-SPEED FUELSAVER):

The 2-Speed FuelSaver product switches the engine to idle rotation speed. FS2 is designed for all makes and models of RTG cranes.

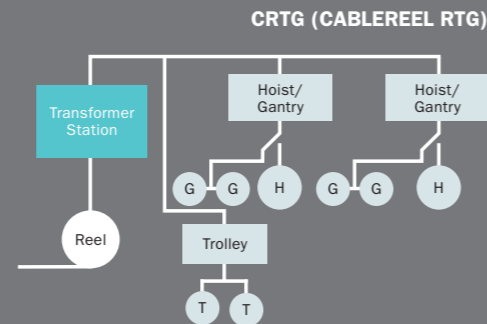
- > Diesel fuel savings approx. 15 to 30%
- > AC-inverter drives required
- > Main components are: control voltage inverter (approx. 45 kVA), sinusoid wave filter and transformer (approx. 30 kVA)
- > The mechanical response time to raise the rpm's (revolutions per minute) is approx. 2-3 seconds



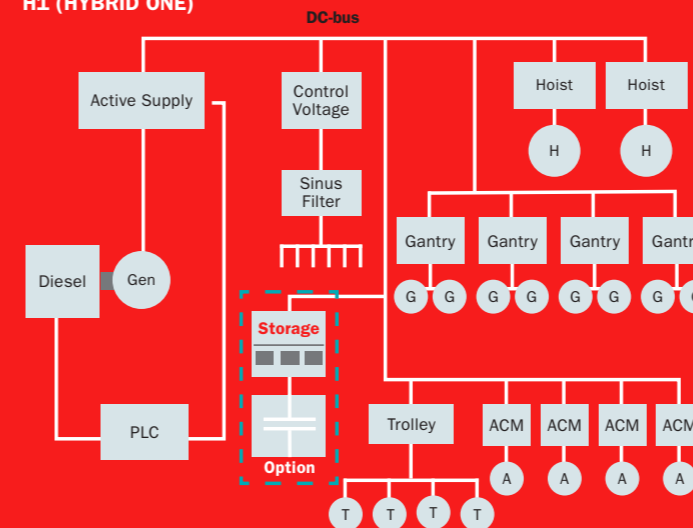
## CRTG (CABLEREEL RTG):

Both for new RTG cranes and also for modernization cases, preferably for Konecranes RTG cranes, case by case evaluation for other manufacturers RTGs.

- > Main components are cable reel, supply cable and canopy for switchgear (approx. 500 kVA) transformer & main switchgear
- > Supply length, end-or middle-point feeding and voltage defines the cable reel size
- > CRTG application is available either with braking resistors or with network braking unit.
- > AutoSteering improves reliability, performance and safety for the positioning of the RTG



## H1 (HYBRID ONE)



## H1 (HYBRID ONE):

The state-of-the-art technology for new generation Konecranes RTG cranes (D2V-drives) allows flexible rpm-range.

- > Diesel engine rotation speed is adjusted to be equivalent with the needed power
- > The system has "learnable predictive characteristics", thus the response time can be eliminated totally e.g. activating of twistlocks will raise the engine rpm's ready for the hoist operation in immediate future
- > Diesel fuel savings are 25-40%
- > H1 requires both Common DC-bus and an industrial versatile diesel engine



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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 and machine tools of all makes. In 2008, Group sales totaled EUR 2,103 million. The Group has 9,900 employees, at more than 470 locations in 43 countries. Konecranes is listed on the NASDAQ OMX Helsinki Ltd (symbol: KCR1V).

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