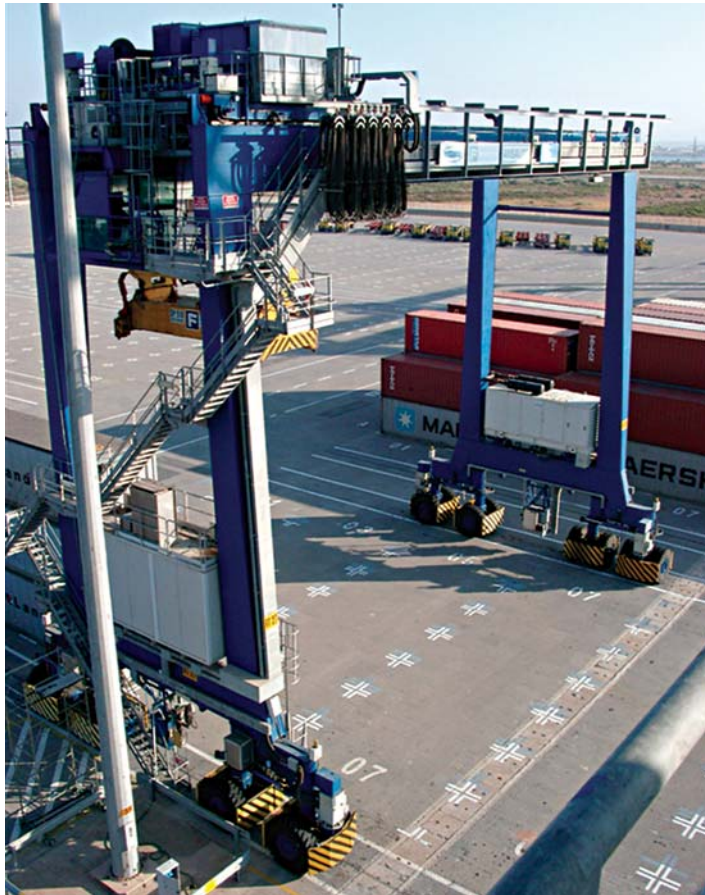


# Electronic System Cuts Crane Fuel Consumption By 20%



A new product, now available from Control Techniques, has been proven to cut overall fuel costs on diesel-electric cranes by as much as 50% during standby giving an overall fuel saving of around 20%!

Control Techniques **RIS.GA** is a compact static electronic system that can be easily installed on new or retrofitted to existing Rubber Tyre Gantry (RTG) cranes and Mobile Harbour Cranes (MHC). This innovative and intelligent system monitors the crane's operation and reduces the speed of the diesel generator during the crane's standby mode to cut fuel consumption dramatically.

Diesel generators on-board RTG and MH cranes are usually run at a constant speed to supply the drive system and auxiliaries, regardless of whether the crane is in operation or in standby mode. This means that, during standby, the system is highly inefficient with a high fuel to power ratio. The result is excessive costs and an unnecessary environmental impact.

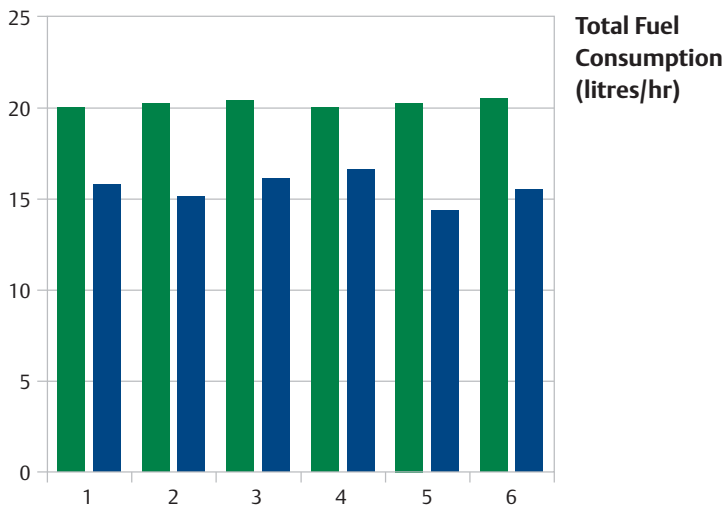
Now, with the RIS.GA system, the total cost of ownership for both new and existing RTG cranes and MHCs can be substantially reduced. As well as reducing fuel costs, crane productivity is increased, since the number of fuel stoppages are fewer and the wear and stress on the diesel engine, generator and auxiliaries is also reduced, cutting maintenance costs and extending their life. What's more, emissions are cut, reducing the environmental impact.

## KEY BENEFITS

- OVERALL FUEL SAVING OF 20%
- FUEL CONSUMPTION AT STANDBY CUT BY 50%
- CRANE PRODUCTIVITY INCREASED
- REDUCED WEAR & STRESS ON ENGINE
- MAINTENANCE COSTS CUT



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### Return on investment

Field tests have shown that the terminal operator can save 20% or more on fuel consumption for each crane on which RIS.GA is fitted – cutting fuel consumption by 50% during standby. A series of six RTG cranes were monitored over a period of one month, demonstrating that total fuel costs were cut from 20 litres per hour to 15 litres per hour, with massive savings from 15 litres per hour down to just 7 litres per hour during standby mode.

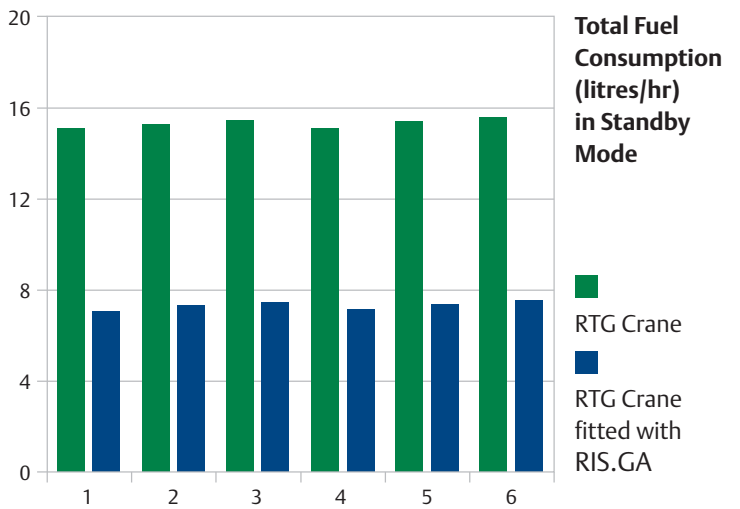
Typically, this gives a payback of between one and two years, depending on local diesel fuel prices and, of course, savings go on and on thereafter!

Space within both RTG and MH cranes is limited and the size of the system is critical. The RIS.GA solution is very compact, allowing easy integration and connection into the control system of either new or existing cranes. Retrofitting takes a matter of hours, minimising crane downtime.

The system has already been successfully installed in ports around the globe and can be seen, for instance, on RTG cranes manufactured by ZPMC, Kalmar, MGM-OMG, Doosan and Fantuzzi Reggiane. It is fully supported by the world network of Control Techniques Drive Centres and distributors.

Control Techniques is part of Emerson Industrial Automation and is the world leader in intelligent drive systems. The company has over 30 years' experience in the design, manufacture and installation of complete automation systems for port cranes around the globe.

For further information please refer to the Control Techniques RIS.GA System Brochure which can be downloaded from [www.controltechniques.com](http://www.controltechniques.com).



### Environmental safety and electrical conformance

- IP20 NEMA rating, IP54 (NEMA 12) through panel mount
- Operating temperature 0-50°C, and enclosed panel mounted max. RH 95%
- Tested IEC 60068-2-34 (vibration), IEC 60068-2-27 (mechanical shock)
- Electromagnetic immunity complies with EN 61800-3 & EN 61000-6-2
- Electromagnetic emissions complies with EN 61800-3



For further information please visit [www.controltechniques.com](http://www.controltechniques.com)



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