Kalmar is part of Cargotec Corporation

TILBURY CONTAINER SERVICES GOES GREENER WITH KALMAR HYBRID TECHNOLOGY

> "Reducing fuel consumption in this way is both good for the environment and good for the bottom line. This exciting new order shows that both Kalmar and TCS are committed to the advancement of eco-friendly container handling technology."

With fuel costs increasing and growing pressure to reduce exhaust emissions, many terminal operators are now evaluating Kalmar's new 'hybrid' straddle carrier.

Tilbury Container Services (TCS), operators of the only dedicated, modern, direct access deepsea terminal within the Port of London, is one such company and as part of an order for six Kalmar 7th generation ESC W straddle carriers, it has specified that one of the machines be fitted with Kalmar's new Pro Future™ hybrid technology package. The other five are capable of being upgraded at a later date.

Cargotec's Kalmar business area launched the world's first straddle carrier equipped with a hybrid drive system in June this year. The hybrid technology package is a modular option that can be fitted to the latest ESC W straddle carriers and results in genuine **fuel savings of around 25 to 30 per cent.** By delivering more moves with less fuel, Kalmar estimates that this new technology can eliminate more than 50 tonnes of CO_2 emissions per straddle carrier per year.

As stated earlier, the hybrid machine is part of an order for six straddle carriers due to be delivered to TCS by the end of March 2009. The remaining five Kalmar ESC W straddle carriers are capable of

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being upgraded to hybrids in the future. As part of the order, a Kalmar engineer will provide on-site support for 12 months.

Kalmar's Pro Future™ hybrid technology package allows hoist motors to be used as generators when lowering containers. The energy produced can be stored until it's needed. Similarly, when machines are braking or decelerating, energy can be drawn from the electric drive system and stored. The machine's supercapacitor energy storage system uses the saved energy before making further demands on the diesel engine for movement or lifting, thereby drastically reducing fuel consumption and emissions. An in-cab display shows the machine's energy flow, thus the driving style can be further fine-tuned to make the most efficient use of the straddle carrier.

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