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A double from Sauer Danfoss

Sauer Danfoss has updated its Plus+1 compliant Engine Information Centre (EIC) software to be compatible with Tier 4 engines and has also introduced its latest extended memory controllers.

The updated EIC software comes preloaded on the company's DP200 and DP250 graphic displays and offers monitoring support for Tier 4 engines. The software displays more than 50 optional gauges which include rpm, engine hours, coolant temperature, oil temperature and pressure as well as fuel level and consumption. New updates include soot and ash percentage gauges, an LED warning for high exhaust system temperature and the ability to manually initiate or inhibit regeneration of the diesel particulate filter. Standard J1939 DM1 error messages are also automatically displayed in user-understandable terms and logged in a fault history for easy retrieval.

The company has also introduced four extended memory controller models which provide increased memory and storage capacities. The models are pin-for-pin compatible with the company's standard 24, 38 and 50-pin MC controllers and available for retrofit. The main benefit of the new controllers - which are user-programmable with the Plus+1 Guide - is the larger 256KB flash



DP250 display unit.

memory. It also provides an unlimited amount of read/writes which enables users to store positioning data, hour metres, time at level, data logging and position control as frequently as necessary. The 2MB of serial flash/vault memory is also beneficial for storing data such as machine performance, troubleshooting data and actual work hours, which can later be extracted using the Plus+1 Service Tool.



Extended memory Controller.



Might you be swayed?

German based crane and hoist specialist SWF Krantechnik has introduced an automatic load stability system for overhead cranes called Sway Control. The new built-in system monitors hook height and speed movements and regulates the acceleration and deceleration speeds, depending on the height of the load/distance it is from the hoist, in order to prevent it from swinging.

By achieving the optimal operational speeds, regardless of his skill, the operator is able to concentrate on the load without having to take in to account any additional movement to the trolley or bridge. Sway Control is said to reduce maintenance costs

by preventing the damage and wear that excessive load peaks cause on a crane. The company has said that the new feature also provides significant time saving and productivity gains as well as improving safety.

Double girder bridge crane using SWF's Sway Control to reduce load movement and maximise safe speeds.



Handling the pressure

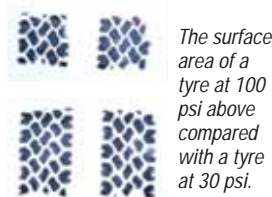
Although Tireboss' tire pressure control system is by no means a new invention it is certainly an interesting and innovative product, the features of which are certainly beneficial to the lifting equipment market. The Tyre Pressure Control (TPC) system is a device operated from the driver's cab which allows the operator to inflate or deflate tyre pressures whilst the vehicle is in motion.

If the machine is being driven over adverse terrain such as sand or mud then reducing tyre pressures provides better traction and manoeuvrability by creating a longer/wider footprint which

distributes the vehicle weight over a larger surface area. In the majority of cases this will prevent machines from getting stuck and can also prevent the track/road from being torn up and therefore made unusable.

Tireboss' TPC system provides the operator with a constant in cab digital read-out of tyre pressures which is important as under inflated tyres can overheat and over inflated tyres can cause unstable vehicle handling. Other benefits of correct air pressure ensure increased tyre life, better fuel consumption and improved handling. The system is also transferrable from one machine to another and so can be offered as an option in the rental market.

The Tireboss control system being demonstrated at the APF show last month.



The surface area of a tyre at 100 psi above compared with a tyre at 30 psi.



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