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# Easy to programme LMI

C&a

innovations

Load Systems International has launched a new Load Moment Indicator (LMI) for telescopic cranes. It features a pair of pressure transducers that read the rod and bore side pressures of the lift cylinders to provide a load readout within a one percent error rate. Data from the transducers is transmitted wirelessly to the GS820 display in the cab along with data from other wireless sensors.

The system provides manufacturers with the ability to save the calibration data on their first machine to a USB drive and load the calibration to subsequent machines via the on-board USB port. On subsequent machines, the calibration will only require minor tweaking relative to the pressure variances of each individual machine, allowing for a simple and fast calibration. The GS820 display features a large sunlight



readable screen, on-board data logger and the ability to upload load charts via the USB port or download the logged data via USB stick. The unit provides a simple readout of all crane geometries, working load limit, actual load, selected chart/counterweights, wind speed, alarms and system faults.



## Torque efficient winch motors

Parker Hannifin has launched a new range of hydraulic motors, developed to provide improved efficiency and performance for a range of applications including crane winch and hoist drives. The new V14 110 and 160 variable speed bent-axis motors feature Parker's unique nine piston configuration and produce extremely high levels of start-up torque, rapid acceleration and fast shaft speeds, while ensuring quick response to changes in operating load or conditions.

The new motors are designed for use with open and closed circuits, have a wide displacement range of 5:1, and are capable of operating at pressures of up to 480 bar with a displacement of between 22 and 160cc per revolution, depending on model. Maximum power output is 335kW, for the larger of the two motors, with 255Nm of output torque at 100bar.

The new motors are available with a choice of mounting, shaft end, control and valve options.



## Carbon fibre technology is coming of age

Following the introduction of the first carbon fibre commercial aircraft this year, German crane manufacturer Liebherr says that it is also planning to introduce more carbon fibre technology into its cranes and other products. The company first demonstrated the technology at Bauma 2007 and is now fitting standard carbon fibre pendant straps to its HS 895 HD duty cycle crawler crane, while offering them as an option on its LR 1300 crawler lift crane.

The material combines high strength with low weight - up to three times lighter - with a higher tensile strength than for a steel pendant with the same cross section. The company says that the carbon fibre pendant straps allow the crane to self-erect longer boom combinations, while providing greater heights and working radii. They also provide higher lift capacities, particularly at long radii. An additional advantage is that they are far easier to handle during crane assembly, weighing less than 30

percent of their steel counterparts. The material also has better long-term wear properties and is far more resistant to fatigue. As such it virtually eliminates the fatigue problems associated with flat steel pendants, particularly for high cycle cranes, or those that spend much of their working life in windy areas. As a result Liebherr claims that the economic pay back is relatively rapid, which should encourage more companies to choose them if they are an option.

