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**IF IT'S NEW,
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Penny + Giles has introduced a new ICT800 and ICT820 in-cylinder linear transducers suitable for intelligent mobile hydraulics. The company claims the new products combine the features of its LVDT and potentiometer technologies into a single displacement transducer which provides an almost limitless, maintenance-free working life with excellent body to stroke length ratio.

The ICT800 features a 12bit resolution and operates from either an unregulated eight to 30 volt DC, or regulated five volt DC supply, providing an analogue output signal of either 0.5 - 4.5 volt DC or 0.2 - 4.8 volt DC. Operating with the same supply the ICT820 features a 13bit resolution with a CAN SAE J1939 interface, which allows the device to operate without the need to use I/O or gateway modules. The ICT800 and ICT820's integrated signal conditioning eliminates cables interconnecting which often reduces the reliability of a control system.

Both models are ideal for small-bore cylinder applications or for installation into hydraulic and pneumatic cylinders and have been specifically designed to simplify installations. Available in a sleeved or threaded version, the sleeved version provides manufacturers with the option of retro-fitting existing cylinders with the threaded version providing designers with the smallest body size available.



Penny + Giles ICT820 in-cylinder transducer

Electric range motors on

Ashwoods Electric Motors, a division of one of the UK's largest producer of hybrid light vehicles Ashwoods Automotive, has commenced production of a range of low cost, powerful and efficient electric motors.

After securing £1.8 million funding from the Technology Strategy Board in 2011 the company has been developing its new range of axial flux permanent magnet motors aimed at both highway and industrial vehicles. Assembled at the company's facility in Exeter the range can operate from 24 to 400 volts and produce two to 60kW of continuous power.

The company claims that the new motors provide one of the lowest cost per-kilowatt on the market.

At the same time it says the motors are highly durable, with long service intervals and that they can also be easily integrated into a variety of applications and operate with or without feedback devices, depending on the level of control required.



Ashwoods' new axial flux permanent magnet electric motor.

Nifty new interface

Australian mounted lift producer Nifty-Lift (not to be mistaken for UK's aerial lift manufacturer Niftylift) has introduced its second generation Canbus control system for its aerial platforms.

Fitted with a high resolution colour screen the operating system has been designed to assist inexperienced users in the correct operation of the lift, as well as highlighting key features such as lighting, door locks and traffic signal boards. It also features built-in fault diagnosis, code logging and overrides as well as detailed servicing information and customisable options for warning messages, alarms and interlock logic. An optional monitoring service allows owners and engineers to remotely diagnose faults or operation issues from anywhere in the world.

As well as being both reliable and easy to use the company claims that the system reduces costs due to a reduction in operator and technician training costs and the removal of unnecessary service callouts.



Nifty-Lift's enhanced user interface.

Two-in-one control system

Prolec has launched its two-in-one PME500 safety and control system which combines a load indicator with a 3D display of the machine's working envelope.

Aimed at mobile cranes, telehandlers and excavators, the graphic interface informs operators - in real-time - of the load being lifted, whilst also showing the available working envelope, whether that be the height or outreach of the machine. The working envelope can also be programmed to take operational or environmental restrictions in to account. A warning alarm is sounded to notify the operator when the machine comes close to exceeding the imposed limits or is close to its maximum lifting capacity. According to Prolec, the PME500 is compatible with equipment from all major manufacturers and is available as a stand-alone system or as an upgrade.



Prolec's PME500 safety and control system.

enquiries

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