

# Anti-shock system smoothes lifting

Magnetek has introduced a new closed-loop flux vector crane controller with a built in anti-shock system. The Impulse G+ and VG+ Series drives are specifically designed for non-mechanical load brake hoists and high performance traverse motions, so are best suited to overhead travelling cranes.

The new controllers incorporate Load Check II technology which continuously monitors the hook load, both during acceleration and constant speed and will stop the lift function while continuing to allow the load to be lowered when an overload is detected. The device effectively eliminates the need for load cells in most applications. It also detects a snagged load during low speed operation and will either pause lifting when the rated capacity is approached or instantaneously halt if it is reached. The Anti-Shock system automatically stabilises loads by detecting and minimising rapid increases in motor torque, thus reducing the potential for crane damage caused by operator induced shock loadings.

On the productivity front the controllers include Adaptive Ultra-Lift technology, which allows higher hoist speeds when it senses a light load or empty hook by continuously monitoring motor torque and adjusting the motor speed to operate at peak performance, improving the crane's efficiency.



Magnetek's Impulse VG+ crane controller with a built-in anti-shock system

# Kalmar adds two safety options



Indonesian terminal operator PTS recently opted for the Anti-Truck Lifting option in a order for six Kalmar rubber tyred gantry cranes.

Port crane and reach stacker manufacturer Kalmar has expanded its SmartPort pre-integrated process automation portfolio with the addition of Stack Profiling and Anti-Truck Lifting.

The Stack Profiling option recognises the position of containers in a stack and prevents containers from being knocked over by the spreader as it moves over the stacks. The Anti-Truck

Lifting option ensures trucks are correctly loaded and also prevents unintentional lifting of the trailer/truck. It features a laser-based detection system which protects against lifting a container chassis due to a locked or jammed chassis twist-lock. The new options are available as either extensions or improvements to pre-existing process automation solutions.



The Stack Profiling option prevents containers from being knocked from a stack

# Pressure sensor from Tecsis

Sensor technology specialist Tecsis has introduced the new P3278 Superior Pressure Sensor, designed specifically for applications in harsh environments and where a high degree of accuracy is required.



Tecsis' new P3278 Superior Pressure Sensor

The sensor is able to resist rough conditions due to its robust design and use of stainless steel for all the housing and wetted parts.

It is also fully waterproof from IP65 up to IP69K and as the process connection and the measuring cell are welded together the pressure sensor can tolerate high levels of shock and vibrations.

The pressure sensor is available with accuracy classes of one percent, 0.5 percent and 0.25 percent (relative to the full range) and a measuring range of -1 to 1,600 bar, with the ranging starting at zero to four bar. For special measuring tasks the P3278 has an optional zero point adjustment ring and all common voltage or current output signals are possible. The user can also choose between various process connections.

# Diesel exhaust particulate filters for rent

Rent a Vent has developed a temporary diesel exhaust fume filter kit that it claims can be fitted to mobile machinery such as boom lifts or telescopic handlers in around 20 minutes.



The filter can be installed in around 20 minutes

The Avex HT220 heavy duty stainless steel diesel exhaust fume filter kit is said to be adaptable to most mobile and static diesel plant and machinery and removes between 95 and 98 percent of particulates from diesel engine exhausts. The company offer the filters for rent, allowing rental companies to install them for contracts where customers have requested, or demanded such equipment, or where diesel machines are needed to work indoors.



The Avex HT220 filter

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