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# Compact crane drive from ABB

ABB has launched a new compact low voltage AC drive with built-in crane control functions for side-by-side installation within control cabinets. The ACS850 drive can be preconfigured for use in stand-alone cranes. Typical applications include hoist, trolley and slew operations for new installations or retrofitting to older tower cranes. The drive will perform equally well in overhead cranes for hoist, trolley and long travel motions. Benefits are said to include:

#### Higher productivity:

Working in conjunction with the drive's motor control platform - DTC (direct torque control) - the crane control programme provides smooth speed and torque control of the crane. Speed and capacity are said

to be optimised through the crane control programme's load speed control, which maximizes the hoist speed for a given load.

#### Improved safety:

The crane control programme also provides several safety functions. For instance, the integrated mechanical brake control logic uses torque memory and pre-magnetising to build up the torque in the motor before opening or closing the brake. This avoids any sudden dropping or jerking movements. The programme's slow down function limits the crane speed to a pre-set level when the crane is inside defined zones.

#### Ease of set-up and use:

The ready-made programme can interface with analogue, digital or fieldbus systems, enabling a wide range of connectivity for start, stop



C&a

innovations

and reference change signals. The programme includes four different user sets for customising the parameter settings for multiple configurations. Each user set includes two different control places and an overriding emergency control place. A crane load analyser shows the crane drive load profile. The drive is rated from 1.1 to 500 kilowatts, 380 to 500 volts with IP20 protection class.

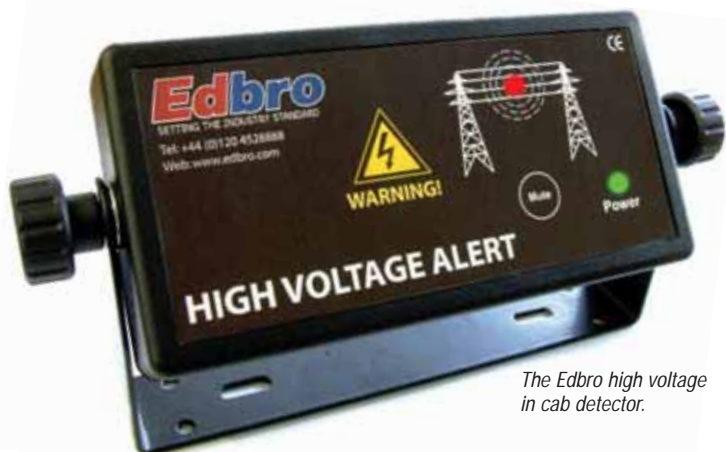
The drive features coated boards which protect the electronics and circuitry from humidity, thereby increasing its reliability. A removable memory unit stores complete drive settings, including all user settings and motor data.

If the drive needs to be replaced or updated, it can be done quickly without any special tools or knowledge.

## In cab high voltage detector

Edbro, has launched a new high voltage proximity alert system for crane booms and tipper bodies which uses a simple detection antenna that does not require boom mounting. The high voltage alert senses when a boom is dangerously close to power lines and emits audio and visual warnings to the operator.

The warning system uses a compact - 235 mm long - detection antenna mounted in the crane cab which is connected to an in-cab warning unit with clear audio and visual warnings. The warning unit display is just 130 mm x 35 mm x 25 mm and produces a high intensity red flashing LED as well as an 85db high pitched buzzer when high voltage is detected within a pre-set distance of up to 100 metres. The 12-24 volt unit is easily installed in new vehicles or retro-fitted to existing ones. Once installed the device will activate on PTO is selected and will then continuously monitor for potential electrical hazards to reduce the risk of accidents.



The Edbro high voltage in cab detector.

## New piston pumps

Parker Hannifin has extended its range of high performance P1 - medium duty mobile and PD - marine, hydraulic pumps with the introduction of 18, 28 and 45cc models. The new piston pumps add to the existing range of 60, 75, 100 and 140cc models, in order to cover a wider variety of applications.

Rated for continuous operation at pressures up to 280 bar, the P1/PD pumps incorporate a number of innovative features to improve performance, reliability and efficiency. For example, low flow ripple minimises noise, while SAE and ISO standard mounting flanges and ports, with a choice of end or side inlet and outlets, make installation quick and simple. An extensive range of options extend the overall functionality and use.

These include standard pressure limiters, with or without torque control, and load sensing with pressure limiter and/or torque control.

Parker Hannifin has extended its P1/PD piston pump range



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