

SP is Drive of Choice for Lift Control Manufacturer



The Bundestag in Berlin, Portcullis House in London and Babbacombe Cliff Railway all have one thing in common – the lifts at these three venues are fitted with controls from German company Kollmorgen Steuerungstechnik of Cologne.

The drive manufacturer of choice for Kollmorgen is Control Techniques and the drive of choice is the advanced Unidrive SP.

Why Control Techniques? “At Kollmorgen, we have developed a market sector that is differentiated by quality,” says Kollmorgen managing director Lars Kollmorgen, “and our key partners must be as addicted to quality as we are. Control Techniques meets this criteria and gives us outstanding local and international support too. Technically, the Unidrive SP drives have unbeatable flexibility and versatility – being equally applicable to closed loop, servo, synchronous, asynchronous, geared or gearless applications – all with one product. And the drives are very compact too, which is particularly important for machine-room-less applications.”

Kollmorgen has some 40 years’ experience of the lift industry, is a dedicated lift control supplier and provides full in-house design, manufacturing, testing and support. Control Techniques’ Drive Centre in Cologne has been supplying the company with drives for over 20 years. Kollmorgen supplies the whole of the electrical package to lift installers, taking total responsibility for the operation and its reliability.

KEY BENEFITS

- DIRECT-TO-FLOOR CONTROL
- UNBEATABLE FLEXIBILITY & VERSATILITY
- COMPACT SIZE
- ONBOARD PROGRAMMABILITY
- OUTSTANDING LOCAL & GLOBAL SUPPORT

0115-0110



CONSIDER IT SOLVED™



With increasing demands for a more sophisticated solution, the drive specification has become more crucial and the programmability of the Unidrive SP has become a necessity.

The Kollmorgen Lift controller interfaces to UnidriveSP using either of the DCP or DCP4 open Lift specific serial protocols via its dedicated RS485 serial port. This allows for a dramatic reduction in controller wiring with obvious reliability benefits in the overall system. Another key benefit of the DCP3 and DCP4 interfaces is that all of the Unidrive SP adjustments can be made directly from the Lift Controller keypad along with any alarm or trip code information being displayed on the Lift Controller display. This key feature allows a great deal of flexibility as to where the Drive can be mounted in the system, particularly useful in MRL system where space and access are at a premium.

The Unidrive SP AC drives give direct-to-floor control and operate in closed loop mode for speed and positioning, with feedback, typically, from a linear encoder mounted in the shaft itself.

“It used to be the norm that customers chose their inverter drives,” says Herr Kollmorgen, “but now, because interfacing is so important, the Control Techniques Unidrive SP is our preferred option. Control Techniques developed the DCP 3 and 4 solution for us and, particularly for machine-room-less applications, it is essential. Without DCP, we would need to access the drive in the shaft, whilst, with it, we simply set up the parameters on the controller, which is quicker, easier and much safer.”

Control Techniques Germany supplies Kollmorgen with a range of drives, the largest to date being 55 kW and, increasingly, drives are fitted with an Ethernet module for remote monitoring and diagnostics. Some systems are also supplied with LonWorks modules for communication with building management systems.

“Unidrive SP is extremely flexible,” comments Lars Kollmorgen, “and allows us to interface with whatever network the client requires. Some 60-70% of our supply goes for the modernisation of existing lifts, with the rest being new build, so the requirements vary considerably. With energy costs soaring, increasingly we are being asked for regeneration and the Unidrive SP can offer this too. But the biggest differences between Control Techniques and other suppliers is, above all, quality and reliability.”

Unidrive SP is the world’s most advanced AC drive for lift applications, configurable into five operating modes – open and closed loop, vector, servo and regenerating modes – connectivity to most communication networks and accepting 14 position feedback protocols. With a range of plug-in module options.

Kollmorgen can supply up to 8-car groups and can service up to 56 floors. The company has recently developed the ‘LiftXpress’ hall call destination control system, where the passenger chooses their destination floor via an easily understood touch-screen. The screen then displays information on which lift will serve the call. LiftXpress can improve efficiency and handling capacity by up to 30%.

Kollmorgen supplies over 500 customers worldwide, in Europe, China, the Middle East and South America and is a member of many associations – VFA, VDMA, ELA, NAEC and the LEIA. The Control Techniques worldwide network of drive centres provides ‘local’ support and service wherever Kollmorgen systems are installed.



For further information please visit
www.controltechniques.com



CONSIDER IT SOLVED™

Network Power • Process Management • Climate Technologies • Storage Solutions • Industrial Automation • Motor Technologies • Appliance Solutions • Professional Tools