

# Drive Components for Hoisting and Traversing

As your cranes deliver their payload, our drives deliver our promise...

From the simple, but powerful, range of Commander SK drives to the high performance range of Unidrive SP – Control Techniques have the AC drive to match your crane & hoist applications.

Our range of Mentor DC drives are perfectly designed for crane refurbishment projects where the existing DC motors can be reused.



From small delicate loads up to several hundred tons of molten steel – Control Techniques have the drives that ensure trusted and reliable crane operation.

## ...Complete Crane Control Systems in Cabinets...

Control Techniques designs, builds and commissions complete control systems for cranes. Our international network of Drive Centres are staffed by professional engineers with years of experience of successfully applying drives within crane projects.

These engineers are at your disposal to consult about your application and to propose cost-effective solutions.



## Industrial Applications

- Steel coils, strip and slab
- Paper production and processing
- Bulk food handling
- Container, Bulk and Cargo Quay-side cranes
- Automotive Industry
- Building Materials

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## Drives for Factory Cranes and Hoists

Drive Systems & Modules  
AC & DC  
220V – 690V  
from 0.25 kW (1/3 hp)  
to 1.9MW (2,500 hp)



## Control Techniques - Your Crane Drive Specialist

### Your Technology Partner...

Control Techniques, an Emerson company, is a global leader in the design and manufacturing of AC and DC variable speed drive technology. With experience of applying drives to cranes and hoists since 1975, Control Techniques continues to develop leading technology to maximize crane productivity.



R&D Facilities in UK and China



Designing Solutions

### ...Wherever you work

Control Techniques supports an installed base of over 2 million AC, DC and servo drives through its 50 Drive Centres and Application Centres located across 30 countries. With our qualified specialist drive engineers, based in key global regions, we are able to assist Factory Crane OEMs and Users of Cranes & Hoists with optimized electrical drive solutions.

## Focus on your Crane Drive Systems...

### Proven Service and Technology in thousands of applications

Control Techniques has the capacity to deliver drive solutions for both new crane projects as well as retrofit installations.

Our extensive international network of Drive Centres ensures that the product support engineers skilled in crane applications are always on-hand.

The inherent quality-by-design drive product range combined with the experience of our engineers makes Control Techniques your first choice when up-time and reliability are the primary considerations.

### Consider it solved...

Customers choose Control Techniques as a partner for the electrical systems for crane retrofits because of confidence in our technical appraisal and capability to deliver.

Our unrivalled experience in crane drive equipment means that you receive the best information and solutions delivering the lowest cost of ownership and the highest return on total capital (ROTC) invested.



## Focus on your Drive Systems...

“Control Techniques specialise in drives!”

Dedication to our core business strategy ensures that you get the best design support and advice, as well as quality products and after-sales attention and service.



# At the Heart of your Control System - Control Techniques Crane Drives...

Control Techniques are leaders in both AC and DC drive technology. For new applications AC drives invariably offer the best solution, however for upgrades and retrofit projects on existing DC systems we can help you to determine the best technology route for your crane systems.

## Commander SK

Simple & Compact AC Drive

0.25kW to 132kW

100V, 200V, 400V, 460V, 575V & 690V

The Commander SK range of open loop AC drives deliver both simplicity and functionality:

- The advanced control logic for engaging the mechanical brake ensures smooth hoisting by keeping both load jerk and droop to a minimum – reducing the risk of damage to the load and cutting down the maintenance costs on mechanical crane components.
- RFI (Radio Frequency Interference) Filter as standard ensuring that any sensitive electronic equipment in the vicinity is not disturbed.
- SmartStick for simple non-skilled maintenance and easy drive changeover.
- Connectivity to all major fieldbus protocols such as Profibus, DeviceNet and wireless Ethernet for connectivity to operations management systems.



Commander SK range (see brochure 0175-0335 for full spec)




Unidrive  AC Drive (see brochure 0175-0339 for full spec)

## Unidrive

High Performance AC Drive

0.75kW to 1.9MW, 200V, 400V, 460V, 575V & 690V

Unidrive  allows greater power density – reducing the space and weight needed for the electrical installation.

The powerful on-board PLC functionality (IEC 61131-3 programming software tools) in each drive can either complement a supervisory PLC or take on the entire logic control for the crane itself in many cases.

The unique modular approach to installation layout standardises spares and allows designs incorporating redundancy to ensure up-time availability.

In addition to the features of the Commander SK the Unidrive SP has many further advanced features:

- Secure Disable for safety-related stopping to EN954-1 category 3 and 4 - saving switchgear and other components.
- SmartCard parameter copy-over for simple non-skilled maintenance and changeover.
- 48-96Vdc battery back-up supply can be connected to return equipment to safe and secure positions in the event of an incoming supply failure.
- Regeneration for energy saving.

# Mentor

DC Drive

7.5kW to 1.5MW 200V, 400V and 575V

Regenerative and non-regenerative models

Mentor DC drives allow fast and straightforward upgrades or retrofit of cranes - often retaining the old DC motors. Immediate productivity increases can be gained through both greater reliability and more efficient movement.

Crane operators appreciate the “feel” of the crane’s response to commands which can be tailored to emulate the replaced controls.



Mentor DC Drive (see brochure 0175-0106 for full spec)

# Emerson Drive & Motor Package

Patay/Leroy Somer, also a group company of Emerson, have more than a century’s experience in the design and manufacture of brake motors for lifting and materials handling.

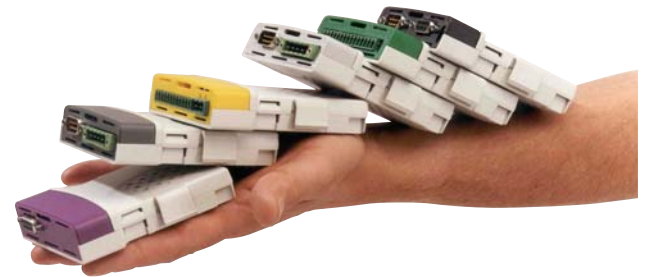
Working with Leroy Somer we have many prestigious crane motor accomplishments such as the “Three Gorge Dam” in China, Singapore Harbour, Marseille Harbour in France, North Sea Oil platforms and many more.



AC & DC Brake Motors

# Dedicated Crane Control Software

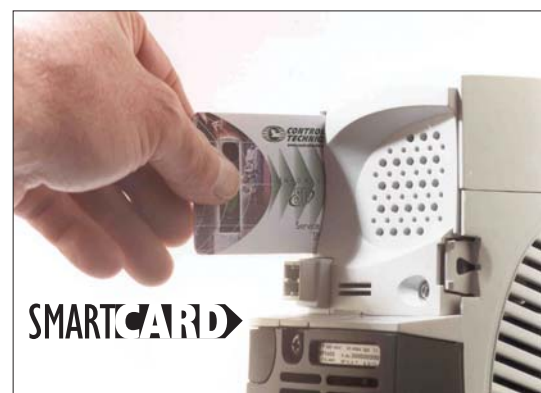
- Grab/Hoist co-ordinated control.
- Constant power hoisting to optimise through-put.
- Operator control consoles and screens designed for clear information and operator comfort.
- Energy saving functionality for cranes using power regeneration back into the mains supply.



**Ethernet**

**DeviceNet**  
CONFORMANCE TESTED

**PROFI**  
PROCESS FIELD BUS  
**BUS**



Speak with Control Techniques for your next project or retrofit installation

[www.controltechniques.com](http://www.controltechniques.com)