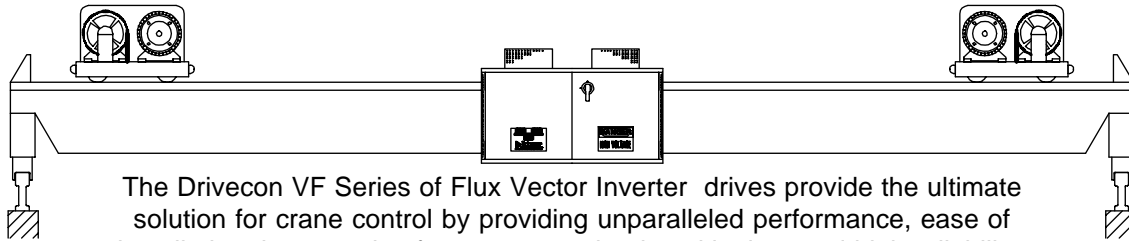


# High Performance Flux Vector AC Drive Controls for Cranes and Hoists



The Drivecon VF Series of Flux Vector Inverter drives provide the ultimate solution for crane control by providing unparalleled performance, ease of installation, increased safety, accurate load positioning and high reliability.

### **Benefits you'll enjoy using Drivecon Flux Vector Drives include:**

- Unmatched level of safety and performance.
- Flux vector technology provides full rated motor torque from 0 RPM to base speed of motor. True load float capability.
- Keypad programmable for easy configuration of preset speeds and acceleration/deceleration rates.
- Extremely precise closed loop speed control.
- 1000:1 speed range at 100% rated output torque.
- 0-200% rated speed. 'Quick Pick' overspeed available for overspeed of light loads.
- Auto-tuning allows use of existing motors or motors not supplied by Drivecon.
- Virtually eliminates brake wear and mechanical stress of crane. - *reduces maintenance by decelerating motor to stop electrically.*
- Replaces troublesome mechanical and electrical load brakes.
- Provides verification and automatic testing of holding brake.

### **Choose from several methods of speed control.**

- **2 Step Infinitely Variable Speed Control** can select an infinite number of speeds anywhere between a user set minimum and maximum speed with a 2 step push-button. The drive decelerates when the push-button is released, or an alternative deceleration rate can be chosen to provide immediate stopping.
- **3 Step Infinitely Variable Speed Control** can select an infinite number of speeds anywhere between a user set minimum and maximum speed with a 3 step push-button. The 1st step on the push-button is used to decelerate to minimum speed. Releasing the push-button provides quick deceleration which simulates immediate brake operation. The holding brake sets once the load is held in a stationary position.
- **Multi-step Speed Control** can select from 1-5 independently adjustable speeds using cumulative contact closures from master switch or pendant switch.
- **Stepless Control** can accept a wide variety of DC voltage inputs for continuous stepless control from potentiometers, radio controls or PLC's
- **Decel to Stop Control** provides a smooth deceleration to zero speed when the push-button is released. The motor brake sets at zero speed or the drive can be programmed to hold the load at 0 speed and verify brake holding torque prior to turning off.



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## **Complete "Extra Value Control Panels" For One Or All Crane Motions.**

- Each motion will consist of the following items:
- Crane duty flux vector or scalar AC drives.
- 120VAC control input direct connection.
- 3 phase input branch power fusing.
- Brake contactor and brake suppressor.
- Dynamic braking resistor banks and dynamic braking transistor module as required.
- 24 hour technical support.
- Mainline contactor, control circuit transformer, fused door interlocked disconnect switches, thermal overload relays, vector duty motors, and radio controls are also available.
- Assembled, wired to a terminal strip, and tested in a NEMA 12 rated enclosure with CAD generated mechanical and electrical drawings and instruction manuals.

## **Optional Accessories:**

- AC 3 phase line reactors.
- Automation of crane and process.
- Air conditioners.
- Motor position synchronization.
- Motor protection filters.
- Anti-collision devices.
- Contactless position controls.

**Drivecon's Pre-engineered control panels are the answer for reliable retrofit and new equipment crane, hoist, and monorail applications. Call or fax Drivecon with your requirements for a prompt quotation.**

No additional interface circuitry of any kind required. Works with conventional pendant stations, master switches, radio, and infrared controls. Safe for hoist operation without mechanical load brakes. Give Drivecon a call for the latest drive technology for your cranes and hoists