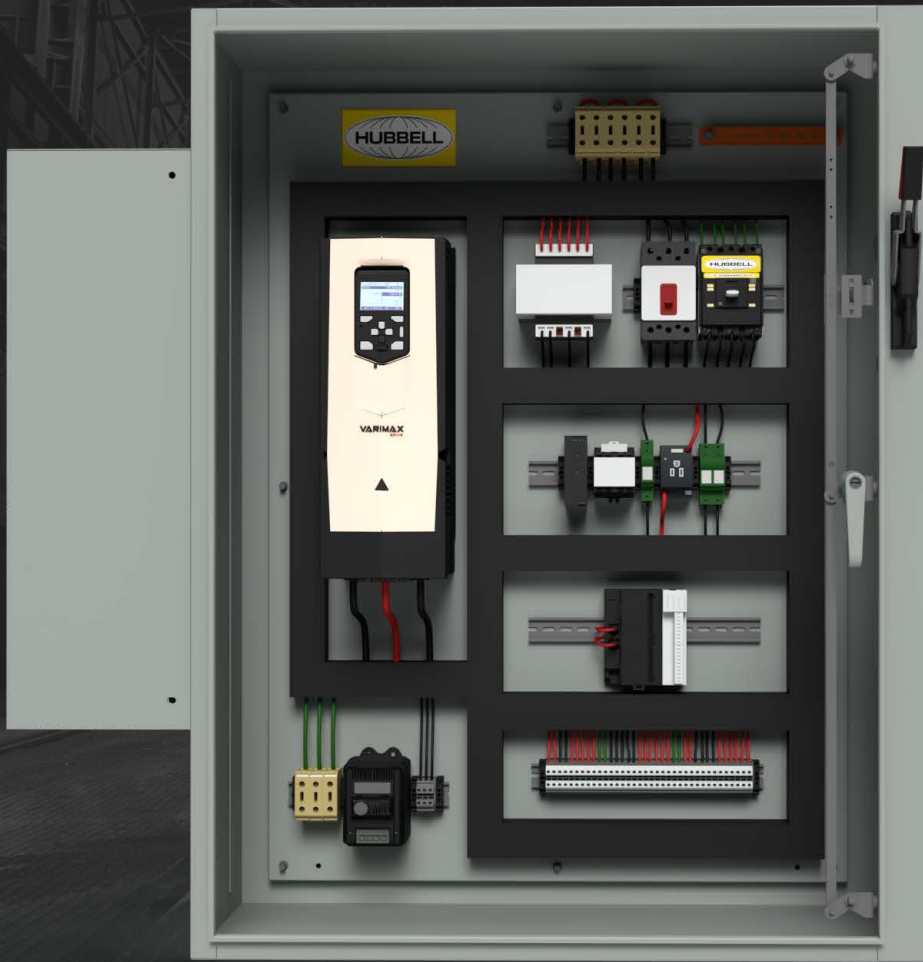




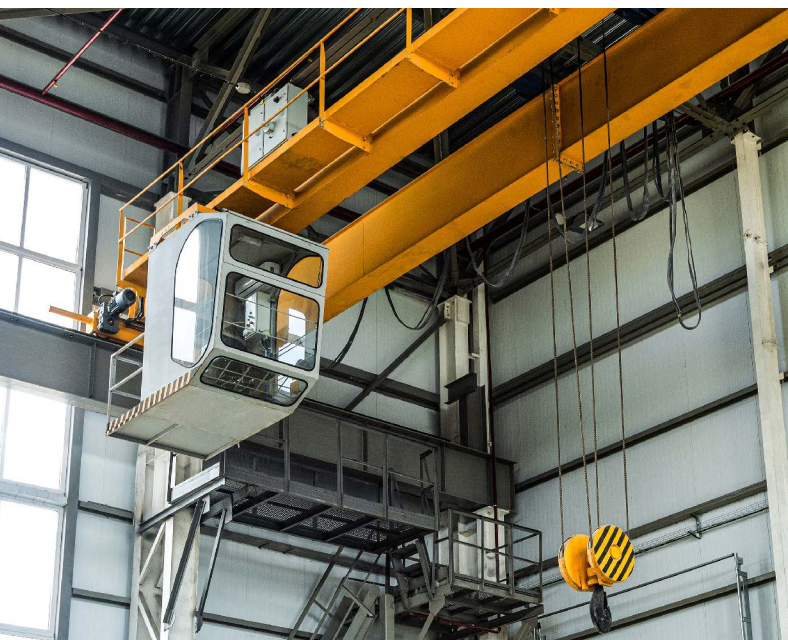
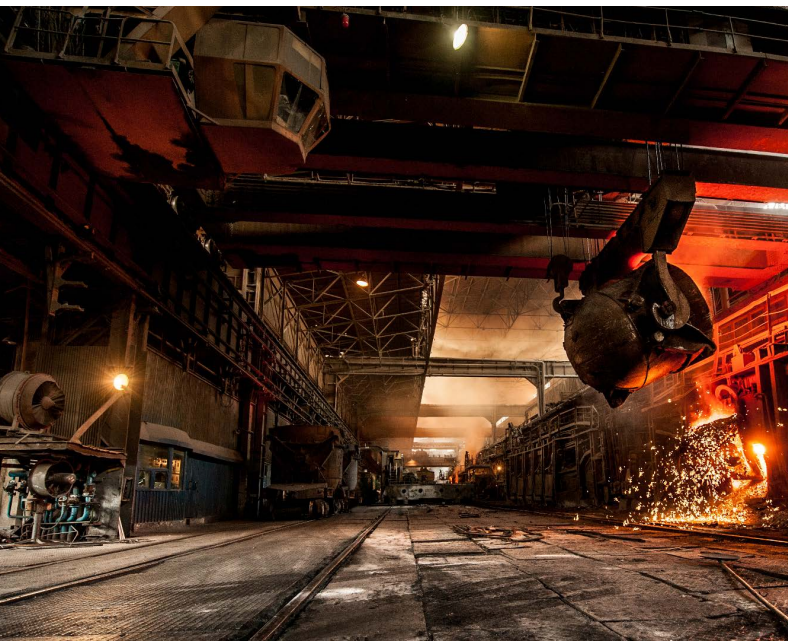
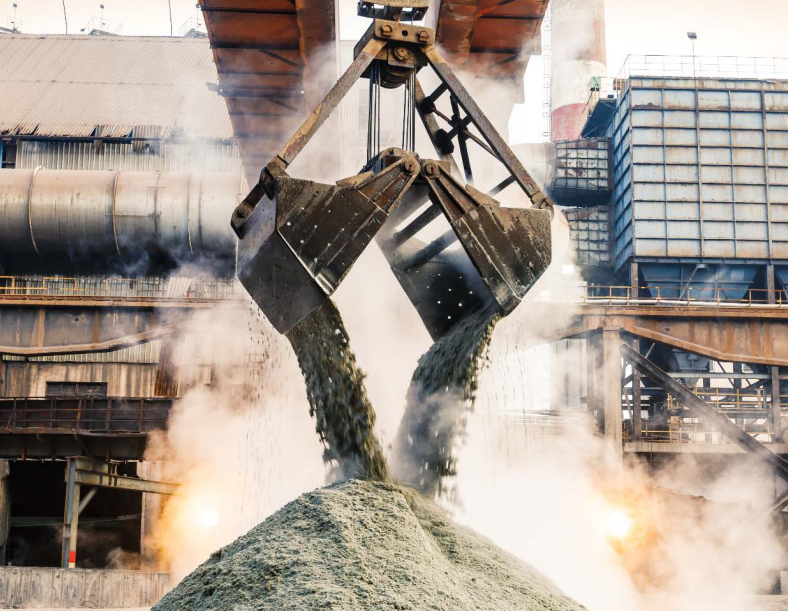
Hubbell Industrial Controls

VARIMAX DRIVE

Your crane control experts



Variable Frequency Control Systems



Simple and Efficient VFD Motor Control

Experience flexible and efficient command and control with **VariMax™ VFD** controls. The perfect system for hoist movement with overhauling loads and standard gear arrangements. Enjoy bridge travel without feedback that might otherwise skew the bridge.

VariMax drive systems provide custom speed ranges yet minimize power consumption. AC systems save energy because they don't waste excess power through secondary resistors. They also reduce control space on the crane.

Benefit from Our History of Drive Innovation and Quality

You've trusted reliable Hubbell DC controls for over a century. Today, our AC controls deliver superior performance and reliability in steel mills, bridges, or any industrial application..

- Easy to use
- Saves energy
- Easy diagnostics
- Fewer, readily available components
- Maintenance savings

A Complete System

The **VariMax** system includes a reliable **VFD** drive with all relays and contactors mounted in a NEMA 12 enclosure. Other enclosure options are also available. Fully integrated DIN rail-mounted components and terminal blocks make installation and maintenance easy. Access on-board diagnostics on the drive, or remotely by smart phone and laptop.

Configure your **VariMax VFD** for single motor, duplex, master/follower, or multi-motor systems.

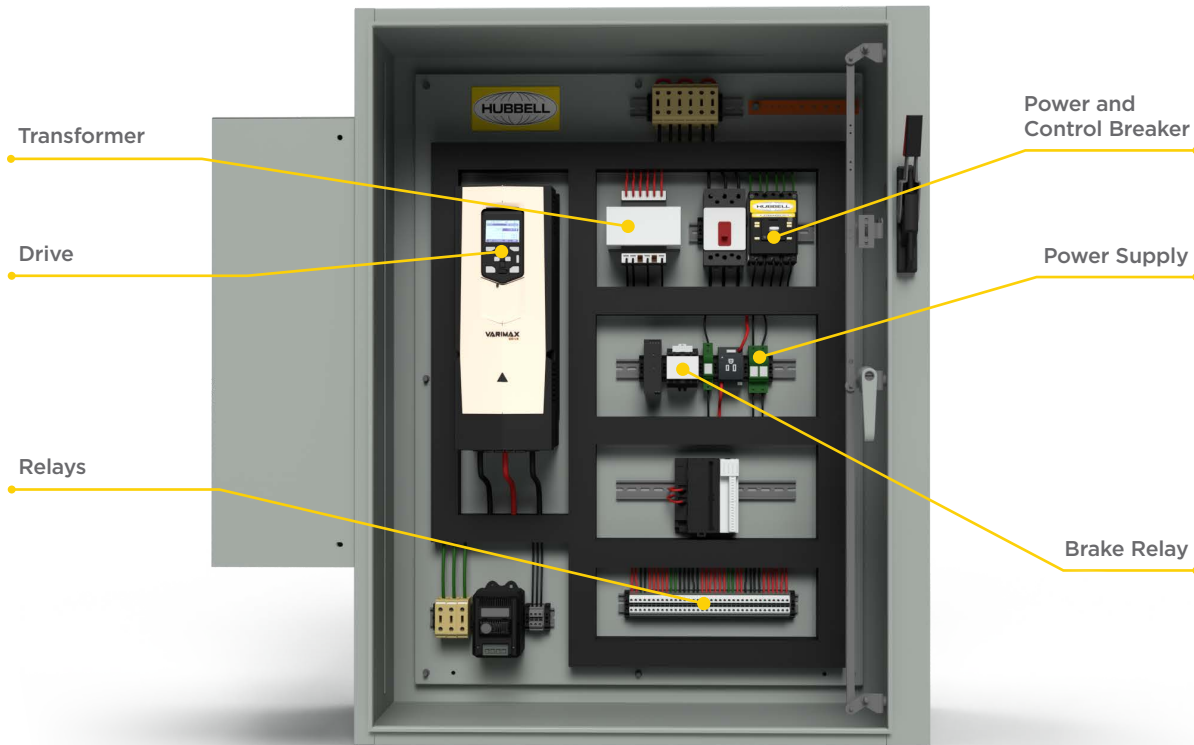
Features That Make a Difference

- Removable memory unit
- Built-in dynamic braking module
- Choose your speed control method
 - Four programmable steps via external contact closures
 - Infinitely variable via 0-10V analog signal input
- Built-in Bluetooth communications link for tuning and troubleshooting system
- Expandable I/O works with DeviceNet, Profibus, EtherCAT, Modbus and Profinet
- On-panel brake contactor and relays
- Power and control circuit protection
- 2A convenience receptacle for laptops
- Hoist drive systems include 120 Vac

- 24 Vdc power supply for encoders
- Optional PLC available

VariMax™ VFD works with both AC inverter duty squirrel cage motors or AC wound rotor motors, along with AC thruster or rectifier operated brakes, and power and control limit switches. Use with power limit switches requires auxiliary control contacts, which open prior to the main power contacts. Standard panels are rated to 40°C. A flange mounted option is available, rated up to 55°C.

Direct Torque Control - Allows your crane to react quickly to changes in movement commands.



Technical Data

- 480 Vac (-15 to +10%)
 - 1.7A to 477A, 0.75 Hp to 400 Hp
- Output frequency 0 to 598 Hz
- Operating temperature range -15 to 40°C
 - +40 to +50°C, derated 1% for each 1°C
 - +40 to +55°C with flange mount drive
- Standard control connections
 - 2 analog inputs
 - 2 analog outputs
 - 6 digital inputs
 - 3 relay outputs
- Expandable I/O adds
 - 3 analog inputs
 - 4 digital inputs
 - 1 analog output
 - 2 relay outputs

Options and Configurations to Match Your Needs

- Regenerative drive systems
- Master/Follower setup for multi-motor systems
- Flange mount kit
- Relay packages for brake acknowledgment, power limit, upper and lower limit switch

Ordering Info

The data we need to create a **VariMax™ VFD** for your application includes:

- Motor full load current rating, horsepower, voltage, and type
- Wye or Delta power configuration, FLA at connection point
- Identify hoist or travel motion
- Number of brakes on your system
- Power and limit switches on the system
- Your required temperature rating
- Mounting location and preferred enclosure type



See our VariMax Variable Frequency Drive Motor Control Systems catalog and specification for complete details.

Call 24/7
336-434-2800

Configure your system at:
hubbell.com/hubbellindustrialcontrols

Count on us for
the best service
in the industry



Hubbell Industrial Controls