

## Drive Motor Forklifts

Forklift Drive Motor - MCC's or Motor Control Centers are an assembly of one section or more that contain a common power bus. These have been utilized in the vehicle business ever since the 1950's, because they were utilized lots of electric motors. Today, they are used in different commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This particular equipment can comprise variable frequency drives, programmable controllers and metering. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are made for large motors which range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to achieve power control and switching.

In places where very dusty or corrosive processes are happening, the motor control center can be established in a separate air-conditioned room. Usually the MCC will be situated on the factory floor close to the machines it is controlling.

A MCC has one or more vertical metallic cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers could be unplugged from the cabinet in order to complete maintenance or testing, while really large controllers could be bolted in place. Every motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers so as to supply short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power so as to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers provide wire ways for field control and power cables.

In a motor control center, each motor controller can be specified with lots of various options. Some of the alternatives consist of: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and numerous types of bi-metal and solid-state overload protection relays. They even comprise various classes of types of power fuses and circuit breakers.

There are several choices regarding delivery of MCC's to the client. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. Conversely, they can be provided ready for the customer to connect all field wiring.

MCC's generally sit on floors which are required to have a fire-resistance rating. Fire stops can be necessary for cables which go through fire-rated floors and walls.