

## Drive Motor Forklifts

Drive Motor Forklift - MCC's or also known as Motor Control Centers are an assembly of one or more sections that contain a common power bus. These have been used in the vehicle industry since the 1950's, for the reason that they were utilized a large number of electric motors. Now, they are utilized in various industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are rather common practice. The MCC's include variable frequency drives, programmable controllers and metering. The MCC's are usually utilized in the electrical service entrance for a building. Motor control centers often are used for low voltage, 3-phase alternating current motors that vary from 230 volts to 600 volts. Medium voltage motor control centers are made for large motors that vary from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments so as to attain power switching and control.

In factory locations and area which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Typically the MCC would be situated on the factory floor near the equipment 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 may be unplugged from the cabinet to be able to complete maintenance or testing, whereas really large controllers can be bolted in place. Each and 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 to enter the controller. The motor is wired to terminals located within the controller. Motor control centers supply wire ways for field control and power cables.

Each and every motor controller within a motor control center could be specified with a range of alternatives. These alternatives include: separate control transformers, extra control terminal blocks, control switches, pilot lamps, and many kinds of solid-state and bi-metal overload protection relays. They even comprise different classes of types of circuit breakers and power fuses.

Concerning the delivery of motor control centers, there are several options for the customer. These could be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. Conversely, they can be supplied prepared for the client to connect all field wiring.

Motor control centers normally sit on the floor and must have a fire-resistance rating. Fire stops may be required for cables that penetrate fire-rated floors and walls.