## Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, that have a common power bus principally comprising motor control units. They have been used ever since the 1950's by the automobile industry, since they utilized lots of electric motors. Now, they are used in various industrial and commercial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This particular equipment can comprise programmable controllers, metering and variable frequency drives. The MCC's are usually found in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors which range from 230 V to 600V. Medium voltage motor control centers are designed for big motors which range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments so as to attain power switching and control.

Inside factory locations and area that have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Usually the MCC would be located on the factory floor next to the machinery it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. To complete maintenance or testing, extremely large controllers could be bolted into place, while smaller controllers could be unplugged from the cabinet. Each motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers offer wire ways for field control and power cables.

Inside a motor control center, each motor controller can be specified with several various choices. Some of the options include: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various types of bi-metal and solid-state overload protection relays. They likewise comprise different classes of kinds of circuit breakers and power fuses.

There are numerous alternatives concerning delivery of MCC's to the customer. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. On the other hand, they can be provided ready for the client to connect all field wiring.

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