

## Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one or more enclosed sections, that have a common power bus mostly comprising motor control units. They have been used ever since the 1950's by the automobile business, in view of the fact that they made use of lots of electric motors. These days, they are used in other industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are quite common practice. The MCC's include variable frequency drives, programmable controllers and metering. The MCC's are commonly seen in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors that vary from 230 volts to 600 volts. Medium voltage motor control centers are intended for big motors that range from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments to be able to attain power switching and control.

In locations where extremely dusty or corrosive methods are taking place, the motor control center may be installed in a separate air-conditioned room. Typically the MCC would be situated 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. In order to complete maintenance or testing, very large controllers could be bolted into place, while smaller controllers may be unplugged from the cabinet. Every motor controller has a contractor or a solid state motor controller, overload relays so as to protect the motor, circuit breaker or fuses to supply short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers supply wire ways for power cables and field control.

Every motor controller within a motor control center can be specified with various alternatives. These alternatives include: control switches, pilot lamps, separate control transformers, extra control terminal blocks, as well as numerous kinds of bi-metal and solid-state overload protection relays. They even have various classes of kinds of circuit breakers and power fuses.

There are numerous choices regarding delivery of MCC's to the client. They could 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 could 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 can be needed for cables which go through fire-rated floors and walls.