Drive Motor Forklifts

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, that have a common power bus mostly containing motor control units. They have been utilized ever since the 1950's by the vehicle business, as they used a lot of electric motors. Now, they are used in various industrial and commercial applications.

In factory assembly for motor starter; motor control centers are rather common method. The MCC's comprise programmable controllers, metering and variable frequency drives. The MCC's are usually utilized in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are made for big motors which range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments so as to attain power control and switching.

In places where extremely corrosive or dusty methods are happening, the motor control center can be established in a separate air-conditioned room. Typically the MCC will be positioned on the factory floor near the machinery it is controlling.

A MCC has one or more vertical metal cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers can be unplugged from the cabinet to be able to complete maintenance or testing, while extremely large controllers could be bolted in place. Each motor controller consists of a contractor or a solid state motor controller, overload relays In order to protect the motor, fuses or circuit breakers to be able to supply short-circuit protection as well as a disconnecting switch to be able 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 power cables and field control.

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

Concerning the delivery of motor control centers, there are a lot of choices for the customer. These can be delivered as an engineered assembly with a programmable controller along with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be provided ready for the client to connect all field wiring.

Motor control centers typically sit on the floor and should have a fire-resistance rating. Fire stops could be needed for cables that go through fire-rated walls and floors.