Drive Motor Forklift

Forklift Drive Motors - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, that have a common power bus mainly containing motor control units. They have been utilized since the 1950's by the vehicle industry, for the reason that they made use of a large number of electric motors. These days, they are used in a variety of industrial and commercial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This particular equipment can consist of programmable controllers, metering and variable frequency drives. The MCC's are commonly found 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 V to 600V. Medium voltage motor control centers are designed for big motors which range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments so as to accomplish power switching and control.

In areas where extremely corrosive or dusty processes are occurring, the motor control center can be installed in a separate air-conditioned room. Typically the MCC will be positioned on the factory floor next 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 can be unplugged from the cabinet so as to complete maintenance or testing, while really big controllers could be bolted in place. Each motor controller has a solid state motor controller or a contractor, 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 enter the controller. The motor is wired to terminals located inside the controller. Motor control centers provide wire ways for field control and power cables.

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

There are lots of alternatives concerning delivery of MCC's to the customer. 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.

MCC's commonly sit on floors that must have a fire-resistance rating. Fire stops may be needed for cables that penetrate fire-rated floors and walls.