

ABSTRACT

RUBBER-TYRED GANTRY CRANE USING CITY ELECTRIC SUPPLY AS A POWER SOURCE

The present invention discloses a rubber-tyred gantry crane using city electric supply as its power source, comprising a gantry, a feed circuit and a plurality of electromotors, said plurality of electromotors being provided at appropriate positions of the gantry and being powered by the feed circuit, wherein the feed circuit is connected with the city electric supply via a cable. The RTG further comprises a cable reel disposed on one side of the gantry, and said cable is wound around the cable reel, with one end of the cable being connected to the feed circuit of the RTG and the other end of the cable going into a cable socket on the ground through a cable lead disposed on a saddle girder of the gantry under the cable reel, and extending along the cable socket to be connected with a joint box for city electric supply disposed at an end terminal of the cable socket. When the RTG travels, the cable reel pulls up and takes off the cable according to the distance between the RTG and the joint box. The RTG according to the present invention use city electric supply as its power source, thus making the rubber-tyred gantry crane has effects of high efficiency, economy and environmental protection.

Figure 1