

Abstract

Disclosed is an electric all-dimensional numerical control injection molding machine applicable to production of injection products with high precision and complex three-dimensional shapes. The electric all-dimensional numerical control injection molding machine mainly comprises a machine base, a main board, four sets of electric mould guiding devices, a cross-shaped chute mould assembly, and an injection device assembly. The four sets of electric mould guiding devices are mounted on a front face of the machine. A slider mould is disposed in a chute of a cross- shaped mould base, is connected to a shaft of an electric driver, and implements mould opening and closing functions by means of linear movement of the shaft of the electric driver. An injection system of the machine is used for injecting plasticized, fused, and homogenized plastic materials into a mould cavity of the mould, thereby manufacturing high-quality plastic products. Both the mould guiding and injection devices are driven by electric power, which reduces the manufacturing, usage and maintenance cost of the apparatus, reduces the noise and oil pollution to the environment, and meanwhile improves the production efficiency of the die-casting products, making operations easier, safer and more efficient, and improving the production stability and the quality of plastic products.

