

Application of NC EDM machine tool

Detail Introduction :

NC EDM Machine is of high speed and precision, suitable for a variety of precision parts of semiconductor chip, chassis, computer accessories, camera shell, automobile accessories, components of the watch and other production demands.

Application of NC EDM Machine Tool

The NC EDM machine tool is a high-speed, highly flexible process for metal machining. The EDM unit is controlled by a PLC system and can be adapted to different machine tools.

A CNC unit has a large amount of flexibility and can be changed to meet a variety of applications. The NC unit is designed and developed on a personal computer (PC). It can also be used on a PC for general CAD-CAM based applications.



The tool uses a non-conducting dielectric fluid to melt the metal. The electricity in the fluid ionizes the vapor and sparks between the workpiece and the electrode.

The result is a rise in temperature at about 1000 degrees Celsius, melting a small portion of the workpiece. The sparks produce a powerful compressive force that vaporizes the metal and creates a slag.

An EDM machine can be programmed to have a maximum current during the discharge. The parameters for this process are dependent on the manufacturer of the generator. The NC system makes it easier to control this process.

The CNC era was initiated during the 1980s. A CNC system became mature during the 1990s. The tool can be programmed with a motion controller, which can also be controlled by a computer. These features allow users to customize the machine to their needs.

The NC EDM machine tool is easy to use and maintain. The process can also be controlled by a computer with the help of a NC software. In the early days, discharge machining was difficult to control manually, but now this process is automated.

As computers grew in number, the CNC era became mature. This new era was known as CNC time. However, many people were still reluctant to embrace this technology and are still wary of the initial investment.



In the history of the EDM, the machine tool was not controlled by a computer. In the past decade, however, the NC EDM machine tool has made a significant progress. The automation of the EDM process has led to improved feed speeds and surface finish.

All these factors allow for a higher degree of precision and quality in machining. Therefore, the application of NC EDM machine tool is a great method for various industries.

In the past, a machine tool that used a wire EDM process was limited to the cutting of small holes. Now, NC EDM machines are much more versatile and can be used for any kind of machining task, from making turbine blades to stents.

The NC EDM machine tool has become a common part-making tool, and it is primarily used in the aerospace and medical industries.

NC EDM machines can be controlled by a user-defined code, and the parameters can vary greatly from machine to machine. Most of the NC EDM machines have multiple parameters related to the tool-electrode interaction. The user's instructions should always be clear.

A good way to understand the operation of an NC EDM machine is to familiarize yourself with its various controls. Using an NC EDM machine is an excellent option if you need to create small holes and have to have precision.

The use of NC EDM machine tools is a common process for metalworking. Its versatility allows users to cut a variety of metals and other materials. Its automatic angular wire threading feature allows the

machine to produce a variety of shapes and patterns.

The use of CNC EDM machines can also increase productivity in industries such as manufacturing, machining, and welding. This CNC machine is also capable of performing reverse engineering.

Several advantages of the NC EDM machine tool include the ability to cut wires in the shape of a desired pattern. It can also be used for wire-embedded components.

In addition, NC EDM machines are capable of producing a range of other metal materials, such as conductive plastics. These machines are more accurate than other machine tools, and they can be used in a wide variety of industries.

When all the NC EDM machine tool is using CNC, it will be more precise and excellent, which will undoubtedly improve the precision of products.