

# Creation history of NC EDM machine tool

## Detail Introduction :

It has not been more than 100 years since power tools appeared in shops. Initially, they were electric one. Then an explosion of rise in the use of all kinds of electrical motors, including electric motors and the development of low-cost universal motor, led to a number of applications CNC equipment. With this movement forward, many companies began selling CNC electric gantry systems when virtually unbeatable price (in comparison with systems made with servos).

## Creation History of NC EDM Machine Tool

NC is the abbreviation for "Non-Collisional Electrode Discharge Machine". This machine tool was invented by Nikola Tesla in 1945. Its name derives from its non-contact nature. The cutting element of NC EDM is made up of electrodes that are pressed into the workpiece. The electrodes are connected to the power supply using a lead. It produces a pulsed DC output. The electrodes are attached to a servo microprocessor, which senses when the gap between the workpiece is too big to be cut by a machine tool and lowers the ram head automatically.



Early NC technology was developed by Sodick. He began by attaching an NC unit to freely control EDM motors. Sodick's GPC Series of power supply for NC Die-sinker EDM machine tool was born in 1977. The numerical control unit helped improve mold accuracy. Sodick's company patented the tool in 1978. In the early 1980s, Sodick and his team completed the first NC Wire-cut EDM 330W with 5-axis simultaneous control.

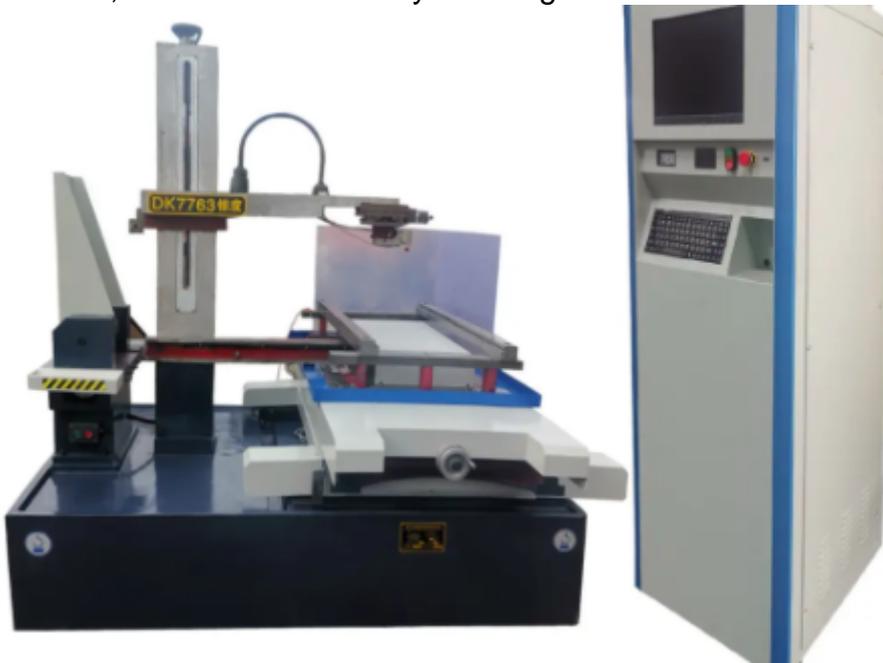
The NC EDM machine was first designed and manufactured by Andrew H. Dulebohn and his team in the 1950s. In the 1960s, they developed a milling and grinding machine. The team developed a CNC plotter to use master drawings. This improved the precision and accuracy of the machines. In 1976, Dulebohn produced the first CNC EDM machine and revolutionized the metalworking industry.

Sodick tackled the NC technology early and developed a proprietary NC unit for freely controlling EDM motors. Sodick successfully integrated the proprietary NC unit into their existing EDM technology. In 1977, Sodick's GPC Series power supply for NC Die-sinker EDM was created. Its CNC unit improved the accuracy of molds. It also led to a more reliable process.

The NC EDM machine tool was first developed by Andrew H. Dulebohn in the 1960s. It was the first CNC machine to use vacuum tube electronics. Its patent gave rise to the modern CNC EDM machine. The CNC EDM machine was first manufactured by Sodick in 1976. In the following years, the evolution of this CNC technology continued to advance. However, its name changed because the same inventor developed the tool.

In the late 60s, Sodick developed a machine for grinding and milling. The NC EDM machine was the first commercially available EDM machine. Its success helped to advance the science of metalworking. It has become an indispensable tool for the industry. Today, NC EDM machines are used for manufacturing tools in the automotive, aerospace and military fields. They are the perfect choice for many industries because of their flexibility and versatility.

The first NC machines were developed by Andrew H. Dulebohn in the 1960s. They used punched tape for a data input system. The concept of numerical control was revolutionary but it took some time for manufacturers to adopt it. The US Army purchased 120 NC machines and loaned them to different manufacturers for training. In the late 50s, the CNC EDM machine became a commercially available machine, but it still faced many challenges.



Despite its commercial success, NC machine tools are still a complex technology that requires many variables. While computer numerical control systems were originally invented for mechanical components, the most common ones are still used today. A computer-controlled wire-cut EDM can be controlled with a simple touch of a button. The latest machines can be programmed to make multiple-axis components. A CNC-based EDM is an ideal solution for a wide variety of industrial tasks.

After the invention of CNC EDM, the first NC machines were sold commercially. The first ones ran from punched tape. The revolutionary NC concept quickly gained popularity, but the technology was still very different and slow to catch on with manufacturers. By the end of the 50s, the technology had become a standard in the industry. In the decades to follow, the NC machines became widespread and the CNC EDM machine tool was born.

CNC is short for computer numerical control, which is a machine tool system with computer control and technical realization, used in the manufacture of precision parts.