

# CNC EDM Small Hole Drilling Machine

The CNC EDM small hole drilling machine is a precision machine tool used for creating small, accurate holes in various materials using electrical discharge machining. It is suitable for applications requiring high precision and repeatability in industries such as aerospace, medical, and electronics.



## ADDITIONAL IMAGES



## Product Overview

### High-Speed EDM Precision Drilling

This high-speed small hole drilling machine utilizes advanced electrical discharge machining (EDM) technology to create precise holes in a wide range of conductive materials, including hardened steel, stainless steel, copper, and aluminum. Designed for versatility, it supports hole diameters from 0.2mm to 3.0mm with an impressive depth-to-diameter ratio of up to 300:1. The machine features an intelligent CNC control system that allows for remote monitoring, real-time parameter adjustment, and complex programming, making it an ideal solution for demanding applications like spinneret plates, engine blades, and hydraulic valves.

## Technical Capabilities

|                                    |                                                                     |
|------------------------------------|---------------------------------------------------------------------|
| <b>Hole Diameter Range</b>         | 0.2mm - 3.0mm                                                       |
| <b>Max Depth-to-Diameter Ratio</b> | 300:1                                                               |
| <b>Compatible Materials</b>        | Stainless Steel, Hardened Steel, Copper, Aluminum, Hard Alloy Steel |

## CNC & Control System

### Connectivity & Remote Access

- LAN port connection
- Internet remote monitoring
- Flash disc reading
- G-code file management

### Automation Functions

- Auto edge finding and centering
- Auto short circuit management
- Auto-repair electrodes
- Gap servo follow function
- Auto clear Z-axis

### Supported CAD/CAM Software

UG, SOLIDWORKS, AUTOCAD, Libre CAD

## Hardware Configuration

### Key Hardware Components

| Component    | Specification                    |
|--------------|----------------------------------|
| Z-Axis Drive | Linear guide rail, stepper motor |
| Rotary Head  | Straight gear transmission       |
| Work Table   | Marble                           |
| Cooling/Pump | Specialty plunger pump           |

## Certifications & Standards

### Compliance & Quality

CE Certified • Quality Management System • Environmental Management System • High-Tech Product