

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

Hole Diameter Range	0.2mm - 3.0mm
Max Depth-to-Diameter Ratio	300:1
Compatible Materials	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