

# Electrical Discharge Machine

An electrical discharge machine (EDM) utilizes electrical discharges to achieve the desired shape. Material is removed from the workpiece through recurring current discharges between two electrodes, which are separated by a dielectric fluid and subject to an electric voltage.



## Overview

### Electrical Discharge Machine (EDM)

This Electrical Discharge Machine utilizes the spark erosion process to achieve precise manufacturing results. By creating a series of rapidly recurring current discharges between a tool-electrode and the workpiece within a dielectric fluid, it effectively removes material to form desired shapes. This versatile technology is suitable for complex machining tasks, including die sinking and wire cutting applications.

## Process Details

### Working Principle

- Rapidly recurring current discharges
- Material removal via spark erosion
- Dielectric fluid immersion
- Tool-electrode and workpiece interaction

### Machining Process

Spark Erosion, Die Sinking, Wire Erosion, Wire Cutting

## Quality Assurance

### Quality Level

High Quality