

First Japanese wire electrical discharge machine

Registration No.	Number 00374		
Registration Date	September 10, 2024	Registration Category	Category 1

Name (Model, etc.)	Wire-cut EDM DWC-50
Location	Nagoya-shi, Aichi
	FA Communication Center, Mitsubishi Electric Corporation
Owner (Custodian)	Industrial Mechatronics Systems Works, Mitsubishi Electric Corporation
Manufacturer (Company)	Mitsubishi Electric Corporation
Year Manufactured	1973
Year first appeared	1972
Reason For Selection	This item was the second shipped product out of Japan's first production of wire electrical discharge machines, which were released in 1972. Only the electrical discharge machine portion still exists today. The wire electrical discharge machine is a system that conducts processing by inducing an electrical discharge between the item being manufactured and a wire electrode, using numerical control to operate an XY table, and moving the wire and the item being manufactured relative to each other. In order to put one in the market, it was necessary to wait for the emergence of a wire electrical discharge machine for which both functionality and price were commensurate. The machine presented here introduced a relatively inexpensive optical form tracer device developed in the U.S.A. in place of the numerical control device. It is important as a machine that responded quickly to the market need awaiting speedy development.
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.)

Open/Closed to Public	Open to Public
Photo	  Connected to an optical form tracer device (product photograph from the original sales release)
Other useful information	