

## High Speed Edm Cutting Machine Metal Processing 1720x1680x1700mm

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: DK7750F
- Minimum Order Quantity: 1
- Price: USD6000-8000
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 100sets



#### Product Specification

- Workbench Size(mm): 950x650
- Worktable Travel(mm): 500x630
- Surface Roughness Of Machining( $\mu\text{m}$ ):  $Ra \leq 2.5$
- $Ra \leq 2.5$ : 160mm 2/min
- Maximum Cutting Taper: "+\_6 Degree
- Max. Load(kg): 600kg
- Max. Cutting Thickness(mm): 600
- Power: 2.5KW
- Dimension(L\*W\*H)mm: 1720x1680x1700mm
- Highlight: high speed edm cutting machine,  
edm cutting machine metal,  
edm machine cutting 1720x1680x1700mm

## Product Description

DK7750F China factory price CNC edm cutting machine fast speed metal processing machine





ITEM	DK7750F
workbench size(mm)	950x650
worktable travel(mm)	500x630
Surface roughness of machining( $\mu\text{m}$ )	$Ra \leq 2.5$
Maximum cutting speed	160mm 2/min
Maximum cutting taper	$\pm 6$ degree
Max. load(kg)	600kg
Max. cutting thickness(mm)	400
Max.current	7A
Control Axis	4 axis
Molybdenum wire dia(mm)	0.15-0.22
Software	AUTOCUT
Voltage	380v 220HZ
Power	2.5KW
Dimension(L*W*H)mm	1600x1240x1400mm

The Fast Wire Electrical Discharge Machining (WEDM) machine, also known as a High-Speed Wire Electrical Discharge Machine (WEDM-HS), is an efficient metal cutting device. It operates by using a rapidly reciprocating electrode wire (usually made of molybdenum wire) with speeds ranging from 8 to 10 meters per second. The wire can be reused, leading to high cutting speeds. Its accuracy typically falls between 0.05 to 0.08 millimeters.

During operation, the wire is negatively charged, while the workpiece is positively charged. When the distance between them is less than the discharge gap, a pulse power supply generates an electric spark, creating high temperatures that melt or vaporize the workpiece's surface. The wire's movement and the impact of the working fluid remove the metal, forming a groove. Since the molybdenum wire's melting point is much higher than the workpiece material and it moves away from the high-temperature area, the wire's wear is significantly less than the workpiece, ensuring precise cutting.

Fast wire EDMs are widely used in mold manufacturing, processing of difficult-to-machine materials, and for complex part fabrication. Especially suitable for rapid processing of large-thickness molds or components, regular maintenance and replacement of consumables like guide wheels and guides, as well as quality control of the molybdenum wire and cutting fluid, are essential to maintain high cutting quality.

In China, the development of fast wire EDM machines started in the 1960s, with the invention by Engineer Zhang Weiliang. Later, they were commercialized in factories in cities like Suzhou. Over time, through technological advancements such as the application of single-board computers, innovations in working media, and the introduction of composite working fluids, the efficiency and surface finish of cutting have been significantly improved. Modern fast wire EDM machines not only boast improved design aesthetics but also enhanced functionality and environmental performance.

If you need more detailed information about fast wire EDM machines or are looking for specific models, it's recommended to consult professional wire EDM machine manufacturers, like Jiang Lin Numerical Control Machine Tool Co., Ltd., who can provide comprehensive support from equipment supply to after-sales service.

