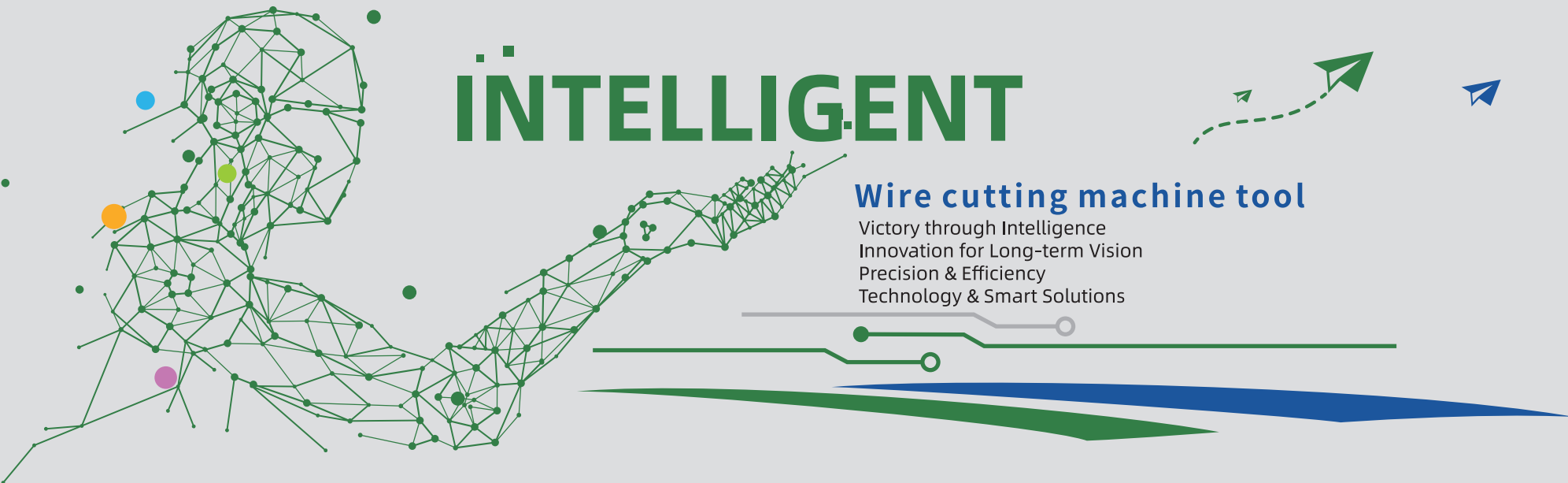




POOSN MACHINE TOOL

Professional CNC machine tool manufacturer



INTELLIGENT

Wire cutting machine tool

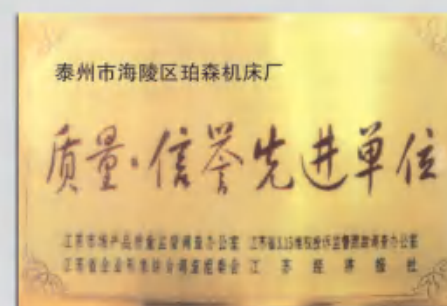
Victory through Intelligence
Innovation for Long-term Vision
Precision & Efficiency
Technology & Smart Solutions

BRIEF INTRODUCTION

Our company is a specialized manufacturer with years of experience in the research, development, and production of electrical machining and special processing technologies and equipment. We possess robust technical expertise, advanced processing equipment, comprehensive testing methods, and rational product designs. All products strictly adhere to national standards for production management, with each machine undergoing positioning accuracy testing to ensure high-quality output.

Our main products include the PS-C and PS-BC series medium-speed wire cut EDM machines, the DK-A and DK-B series high-speed wire cut EDM machines, and the DK-D series wire cut EDM machines with large cutting taper.

Our products are distributed nationwide and exported to regions such as Southeast Asia, West Asia, Europe, and America. Guided by the principle of "Quality First, Customer Foremost," we adopt a market-oriented approach to meet user needs and provide sincere services to our customers.



PS-C

Medium-speed Wire-cut EDM Machine

- ◆ Worktable standard equipped with imported linear guides
- ◆ Adaptive constant-tension wire tightening mechanism (Optional)
- ◆ X8 system (Standard), CAXA CAM2019 or TCAM (Optional)
- ◆ Non-destructive high-precision center hole positioning
- ◆ Worktable standard equipped with grating scale for real-time full-stroke position monitoring
- ◆ Full series standard with high-speed power supply or nanosecond power supply
- ◆ Taper cutting full series standard with linear guides and ball screws
- ◆ Z-axis full series standard with one-click depth setting via linear guides



PS-C Medium-Speed WEDM Technical Parameters

Model	PS35C	PS45C	PS50C	PS60C
CNC Worktable				
Worktable Size	550 × 826mm	650 × 926mm	740 × 1060mm	840 × 1160mm
XY Travel Size	350 × 500mm	450 × 600mm	500 × 700mm	600 × 800mm
Processing Slot Size	545 × 910mm	645 × 1010mm	740 × 1150mm	840 × 1250mm
Max. Cutting Thickness	280mm	280mm	350mm	430mm
Max. Worktable Load	300kg	400kg	600kg	800kg
Tapering Device				
UV Travel Size	60 × 60mm			
Max. Cutting Taper	± 6° /80mm			
Wire Feed System				
Max. Travel size of wire drum	180mm			
Electrode Wire Diameter	Φ0.18mm(With wire guider)			
Wire Feed Speed	1 ~ 11m/s Frequency control			
Max. Wire Storage Length	≈ 320m			
High-Pressure Water Tank				
Fluid Tank Capacity	80L			
Fluid Filtration Method	Paper core filter			
Test Piece Processing Specifications				
Processing Accuracy	0.01mm			
Max. Cutting Efficiency	10000 ~ 16000mm²/h			
Optimal Surface Roughness	Ra≤1.2 μ m(Multi-cutting)			
Drive Control				
CNC Worktable	Standard: X Y stepper drives Optional: X Y AC servo drives			
CNC Taper Device	UV 3P stepper drives			
Z-Axis Lift	Electric motor AC 220V			
Number of NC Controlled Axes	X、Y、U、V Four-axis linkage			
Electrical and Programming System				
Programming System	X8 /AUTOCUT control system			
Control Cabinet Model	ZHZ-09G			
Max. Processing Current	6A			
Electrical Capacity	2.5kVA			
Power Supply	3N 380V ± 10			
Machine Weight	1600kg	2000kg	2200kg	2700kg
Machine Dimensions	1835 × 1530 × 2010mm	2010 × 1655 × 2010mm	2300 × 1865 × 2200mm	2500 × 2065 × 2300mm

★ Customizable options available for PS60C and above machines.



Taper device



Wire feed drive



Servo drive (optional)

DK-D

Large Cutting Taper
WEDM



Large Cutting Taper
 $\pm 30^\circ / \pm 45^\circ$



DK-D Large Cutting Taper WEDM Technical Parameters

Model	DK45D	DK55D	DK63D	DK80D
CNC Worktable				
Worktable Size	570 × 950mm	740 × 1160mm	844 × 1360mm	1020 × 1620mm
XY travel size	450 × 650mm	550 × 800mm	630 × 1000mm	800 × 1200mm
Processing Slot Size	630 × 990mm	770 × 1180mm	890 × 1400mm	1050 × 1660mm
Max. Cutting Thickness	450mm	600mm	600mm	800mm
Max. Worktable Load	400kg	600kg	800kg	1000kg
Tapering Device				
UV travel size	290 × 290mm	± 30°: 400 × 400mm ± 45°: 590 × 590mm		
Max. Cutting Taper	± 30°/40mm	± 30°/80mm ± 45°/80mm		
Wire Feed System				
Max. Travel size of wire drum	180mm			
Electrode Wire Diameter	Φ0.18mm(With wire guider)			
Wire Feed Speed	1 ~ 11m/s Frequency control			
Max. Wire Storage Length	≈350m			
Machine Performance and Configuration				
Standard	High—precision linear rail support; Eco—friendly waterproof cover			
Optional	☐ High—pressure water tank ☐ Linear scale			
Machine Accuracy	GB/T7926—2015			
Max. Cutting Efficiency	10000 ~ 16000mm²/h			
Optimal Surface Roughness	Ra≤2.5 μ m			
Drive Control				
CNC Worktable	Standard: X Y stepper drives Optional: X Y AC servo drives			
CNC Tapering Device	U— and V—axis 3Phase stepper drives			
Z—Axis Lift	Electric motor AC 220V			
Number of NC Controlled Axes	X、Y、U、V Four—axis linkage			
Electrical and Programming System				
Programming System	X8 /AUTOCUT control system			
Control Cabinet Model	standard configuration: ZHZK—03 ☐ optional: ZHZ—09G			
Max. Processing Current	6A			
Electrical Capacity	2.5KVA			
Power Supply	3N 380V ± 10			
Machine Weight	1600kg	2000kg	2500kg	3500kg
Machine Dimensions	1780 × 1500 × 1700mm	2210 × 2030 × 2335mm	2420 × 2240 × 2370mm	2600 × 2590 × 2900mm

★ Customizable options available for DK80D and above machines.

Medium-speed Wire-cut EDM Machine

Powerful Core

Equipped with an advanced patented eco-friendly pulse power supply, it effortlessly achieves low electrode wear, high-speed processing, low surface roughness, and high energy efficiency with minimal environmental impact. Imported frequency converters enable smooth directional switching, extending the mechanical lifespan of the wire drive system. The intelligent integration of these technologies ensures consistent surface roughness. The novel patented constant-tension mechanism addresses the sluggish response of simple weight-based tensioning systems to wire tension fluctuations, minimizing variations in electrode wire tension. Even during taper cutting, dynamic constant tension is maintained.

One-touch motor automatic threading

It is convenient and efficient, reduces manual labor intensity, and enhances safety.

Waterproof gem guide wheel

The $\Phi 40$ single-sided gemstone guide wheel is designed for easy threading, long life, and high precision.

Automatic double-sided tightening mechanism

Automatic double-sided tightening prevents molybdenum wire vibration and single-sided loosening.

High-quality HT250 castings with a T-shaped bed

This is superior to conventional strip-shaped beds. Its characteristic is that the worktable can only move within the confines of the base, preventing deformation and ensuring long-term stability of the machine tool.

Intelligent Control System

A professional industrial control computer ensures long-term stable and reliable performance. As the first domestic manufacturer to adopt imported AC servo systems, it achieves faster processing speeds and higher precision in multiple-cut operations. Equipped with interfaces such as LAN and USB for seamless data exchange. The intelligent programming system simplifies the generation of G-code programs.

Large cutting taper

U and V axis P-grade linear guides
Optional: U and V combination, servo motor, linear guide, ball screw.

Liftable Gem Wire Guide

Advantage 1: The wire guide allows for maximum proximity to the workpiece surface during machining, reducing wire vibration and improving machining accuracy and surface finish.
Advantage 2: The cutting height range can be adjusted without rethreading the wire, facilitating manual operation and improving work efficiency.

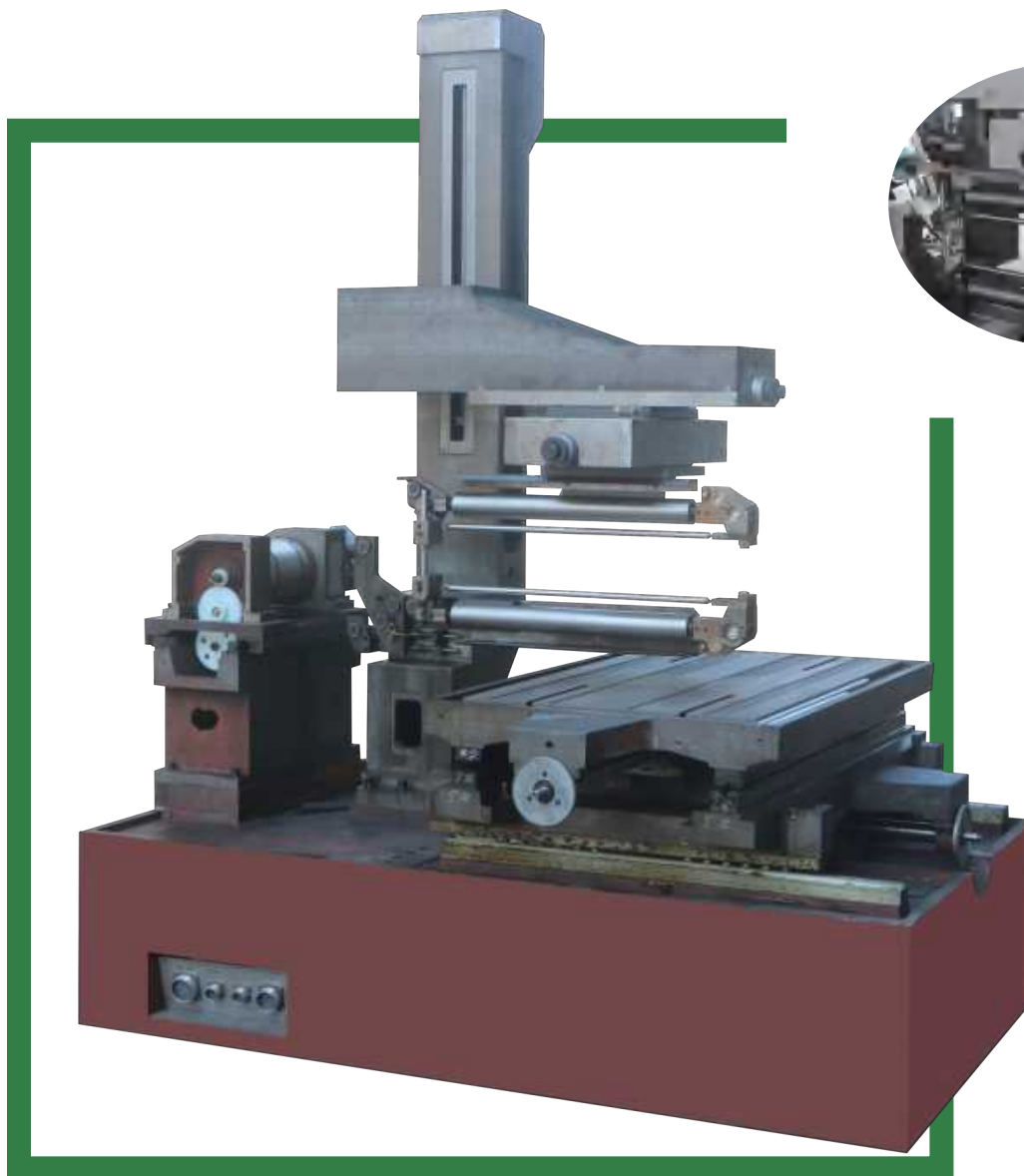
Driven by the Panasonic servo motor

Taiwan brand High-precision linear guides, ball screws, and C-type wire frames.

Imported bearings

All motion mechanisms utilize Japanese EZO bearings





Linear guide rail lifting is optional

Machine Tool Performance Characteristics

1. Automatic tracking water spraying during the cutting process;
2. Automatic spring wire tension;
3. Convenient replacement of the main guide wheel;
4. Taper device equipped with linear guides and ball screw pairs;
5. CNC stroke for U and V axes: $400 \times 400\text{mm} (\pm 30^\circ)$
 $590 \times 590\text{mm} (\pm 45^\circ)$

DK-BC

High-Medium-speed
WEDM



ZHZK-03(standard)



ZHZ-09G(optional)



DK-BC High-Medium-Speed WEDM Technical Parameters

Model	DK35BC	DK45BC	DK50BC	DK60BC
CNC Worktable				
Worktable Size	500 × 750mm	650 × 926mm	740 × 1060mm	840 × 1160mm
XY Travel Size	350 × 450mm	450 × 600mm	500 × 700mm	600 × 800mm
Processing Slot Size	510 × 790mm	650 × 970mm	740 × 1100mm	860 × 1200mm
Max. Cutting Thickness	450mm	450mm	650mm	800mm
Max. Worktable Load	300kg	400kg	600kg	800kg
Tapering Device				
UV Travel Size	60 × 60mm			
Max. Cutting Taper	± 6° /80mm			
Wire Feed System				
Max. Travel size of wire drum	180mm			
Electrode Wire Diameter	Φ0.18mm(With wire guider)			
Wire Feed Speed	1 ~ 11m/s Frequency control			
Max. Wire Storage Length	≈350m			
Machine performance and configuration				
Standard	High—precision linear rail support; Eco—friendly waterproof cover			
Optional	☐ High—pressure water tank ☐ Linear scale			
Processing Accuracy	GB/T7926—2015			
Max. Cutting Efficiency	10000 ~ 16000mm²/h			
Optimal Surface Roughness	Ra≤2.5 μ m			
Drive Control				
CNC Worktable	Standard: X Y stepper drives Optional: X Y AC servo drives			
CNC Taper Device	UV 3P stepper drives			
Z—Axis Lift	Electric motor AC 220V			
Number of NC Controlled Axes	X、Y、U、V Four—axis linkage			
Electrical and Programming System				
Programming System	X8 /AUTOCUT control system			
Control Cabinet Model	Standard: ZHZK—03 ☐ Optional: ZHZ—09G			
Max. Processing Current	6A			
Electrical Capacity	2.5KVA			
Power Supply	3N 380V ± 10			
Machine Weight	1200kg	1400kg	2000kg	2500kg
Machine Dimensions	1650 × 1345 × 1830mm	1915 × 1655 × 1830mm	2200 × 1865 × 2000mm	2400 × 2065 × 2200mm



Linear guides



Linear scale(Optional)



Gem water nozzle



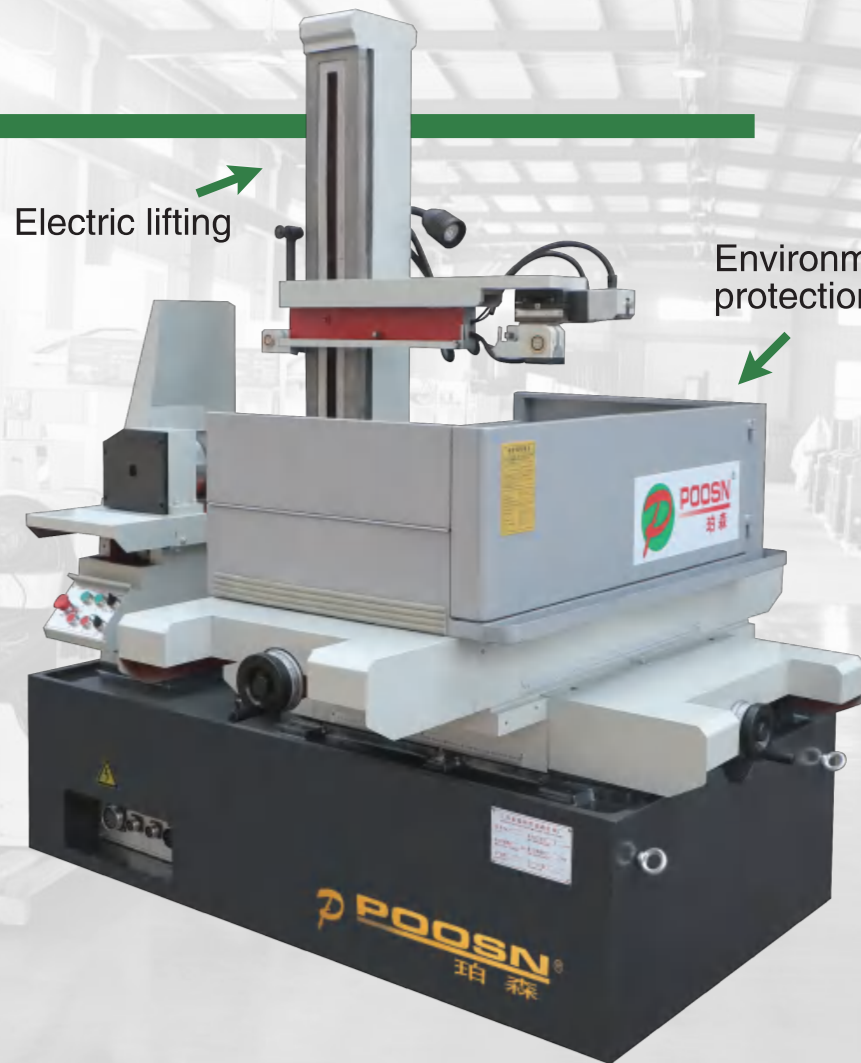
Easy wire-threading waterproof guide wheel



High-pressure water tank

DK77-B

High-speed WEDM



ZHZK-03(standard)



ZHZ-09G(optional)



DK77-B High-speed WEDM Technical Parameters

Model	DK7725B	DK7735B	DK7745B	DK7745FB
Worktable Size	410 × 600mm	500 × 750mm	570 × 850mm	570 × 950mm
X/Y Travel Size	250 × 320mm	350 × 450mm	450 × 550mm	450 × 650mm
Max. Cutting Thickness	350mm	450mm	450mm	450mm
Max. Cutting Taper	± 6° /80mm			
Max. Cutting Efficiency	10000 ~ 16000mm ² /h			
Optimal Surface Roughness	Ra ≤ 2.5 μ m			
Machine Accuracy	GB/T7926-2015			
Drive Type	X, Y, U, V-axis stepper drive, Four-axis linkage			
Machine standard configuration	Environmentally friendly waterproof cover Z-axis electric lift			
Control Cabinet	Standard: ZHZK-03 desktop cabinet ☐ Optional: ZHZ-09G vertical cabinet			
Power Supply	3N 380V ± 10			
Max. Worktable Load	250kg	300kg	400kg	500kg
Machine Weight	840kg	1150kg	1310kg	1410kg
Machine Dimensions	1300 × 1080 × 1625mm	1650 × 1250 × 1830mm	1825 × 1400 × 1830mm	1825 × 1550 × 1830mm

Model	DK7755FB	DK7763FB	DK7780FB	DK77100FB
Worktable Size	740 × 1160mm	844 × 1360mm	1020 × 1620mm	1170 × 1840mm
X/Y Travel Size	550 × 800mm	650 × 1000mm	800 × 1200mm	1000 × 1400mm
Max. Cutting Thickness	650mm	800mm	800mm	1000mm
Max. Cutting Taper	± 6° /80mm			
Max. Cutting Efficiency	10000 ~ 16000mm ² /h			
Optimal Surface Roughness	Ra ≤ 2.5 μ m			
Machine Accuracy	GB/T7926-2015			
Drive Type	X, Y, U, V-axis stepper drive, Four-axis linkage			
Machine standard configuration	Environmentally friendly waterproof cover Z-axis electric lift			
Control Cabinet	Standard: ZHZK-03 desktop cabinet ☐ Optional: ZHZ-09G vertical cabinet			
Power Supply	3N 380V ± 10			
Max. Worktable Load	600kg	800kg	1000kg	1200kg
Machine Weight	1860kg	2380kg	3300kg	5650kg
Machine Dimensions	2120 × 1960 × 2120mm	2400 × 2230 × 2330mm	2660 × 2600 × 2360mm	2900 × 2800 × 2400mm

★ Customizable options available for DK77100 and above machines.

DK77

High-speed WEDM



ZH-K68(standard)



ZHZK-03(optional)



DK77 High-speed WEDM Technical Parameters

Model	DK7725	DK7735	DK7745	DK7745F
Worktable Size	410 × 600mm	500 × 750mm	570 × 850mm	570 × 950mm
X/Y Travel Size	250 × 320mm	350 × 450mm	450 × 550mm	450 × 650mm
Max. Cutting Thickness	350mm	450mm	450mm	450mm
Max. Cutting Taper	± 6° /80mm			
Max. Cutting Efficiency	10000 ~ 16000mm ² /h			
Optimal Surface Roughness	Ra ≤ 2.5 μm			
Machine Accuracy	GB/T7926-2015			
Drive Type	X, Y, U, V-axis stepper drive, Four-axis linkage			
Control Cabinet	Standard: ZH-K68 desktop cabinet ☐ Optional: ZHZK-03 vertical cabinet			
Power Supply	3N 380V ± 10			
Max. Worktable Load	250kg	300kg	400kg	500kg
Machine Weight	800kg	1100kg	1250kg	1350kg
Machine Dimensions	1300 × 1080 × 1625mm	1650 × 1250 × 1830mm	1825 × 1400 × 1830mm	1825 × 1550 × 1830mm

Model	DK7755F	DK7763F	DK7780F	DK77100F
Worktable Size	740 × 1160mm	844 × 1360mm	1020 × 1620mm	1170 × 1840mm
X/Y Travel Size	550 × 800mm	650 × 1000mm	800 × 1200mm	1000 × 1400mm
Max. Cutting Thickness	650mm	800mm	800mm	1000mm
Max. Cutting Taper	± 6° /80mm			
Max. Cutting Efficiency	10000 ~ 16000mm ² /h			
Optimal Surface Roughness	Ra ≤ 2.5 μm			
Machine Accuracy	GB/T7926-2015			
Drive Type	X, Y, U, V-axis stepper drive, Four-axis linkage			
Control Cabinet	Standard: ZH-K68 desktop cabinet ☐ Optional: ZHZK-03 vertical cabinet			
Power Supply	3N 380V ± 10			
Max. Worktable Load	600kg	800kg	1000kg	1200kg
Machine Weight	1800kg	2300kg	3200kg	5500kg
Machine Dimensions	2120 × 1960 × 2120mm	2400 × 2230 × 2330mm	2660 × 2600 × 2360mm	2900 × 2800 × 2400mm

★ Customizable options available for DK77100 and above machines.



BECAUSE OUR PRODUCT INNOVATION, THE MODE
SPECIFICATION WILL CHANGE, ALL PRODUCT MODE INDEX
ACCORDING ACTUAL DATE.



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