



KINTEK SOLUTION

## Diamond Cutting Machine Catalog

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# KINTEK SOLUTION

## COMPANY PROFILE

### >>> About Us

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficient and reliable technology and innovations in the scientific researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vacuum creating, refrigerating, as well as pharmaceutical and petroleum extracting equipment.

In the past 20 years, we earned rich experiences in this researching equipment field, we are capable to supply both the equipment and solution according to customer's needs and realities, we have also developed lots of customer tailored equipment according to a specific working purpose, and we have lots of successful projects in many universities and institutes from different countries, like Asia, Europe, North and South America, Australia and New Zealand, Middle East, and Africa.

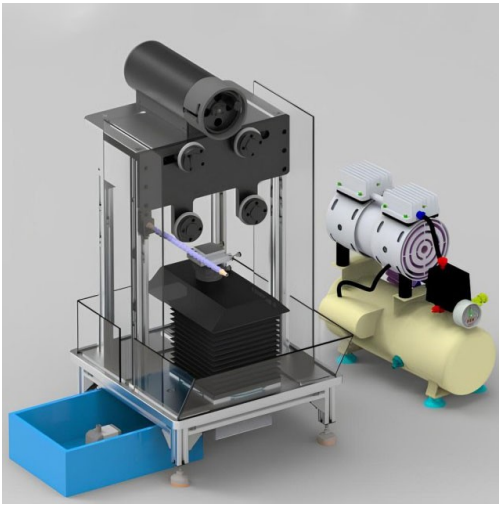
Profession, quick response, hard working, and sincerity is a remarkable label of our team members working attitude, which earn us a sound reputation among our clients.

We are here and ready to service our clients from different countries and regions, and share the most efficient and reliable technology together!



# High Precision Diamond Wire Cutting Machine

Item Number: CM-1



## Introduction

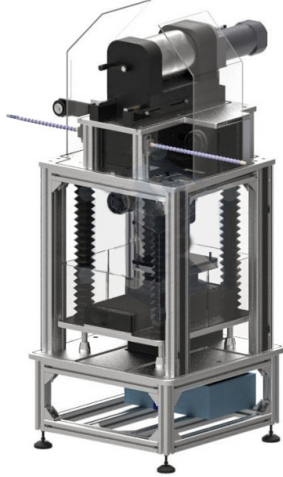
The high precision diamond wire cutting machine is a versatile and precise cutting tool designed specifically for material researchers. It utilizes a continuous diamond wire cutting mechanism, enabling precise cutting of brittle materials such as ceramics, crystals, glass, metals, rocks, and various other materials.

[Learn More](#)

<b>Power supply voltage</b>	220V 50Hz; Maximum power:
<b>Spindle speed</b>	Adjustable within 2rpm to 260rpm
<b>Control system</b>	① Manual control: Y axis and Z axis speed range 1 40mm/min; ② Automatic control: Y axis feed length 0.01 50mm; Z axis feed speed 0.05mm 40mm/min length 0.01 50mm; Z axis feed speed 0.05mm 40mm/min Z axis feed length 1 60mm; Automatic cutting frequency 1 99;
<b>Total length of cutting line</b>	20m
<b>Inner distance between two guide wheels</b>	95mm
<b>Y-axis travel</b>	≤ 50mm
<b>Z-axis travel</b>	≤ 60mm
<b>2D fixture</b>	Horizontal rotation 0-360 °, left and right inclination 20°
<b>Load plate size</b>	80mm× 51mm
<b>Cutting depth</b>	≤ 50mm 11. Maximum sample size for cutting: Ø 50mm × 50mm

# Workbench 800Mm \* 800Mm Diamond Single Wire Circular Small Cutting Machine

Item Number: CM-2



## Introduction

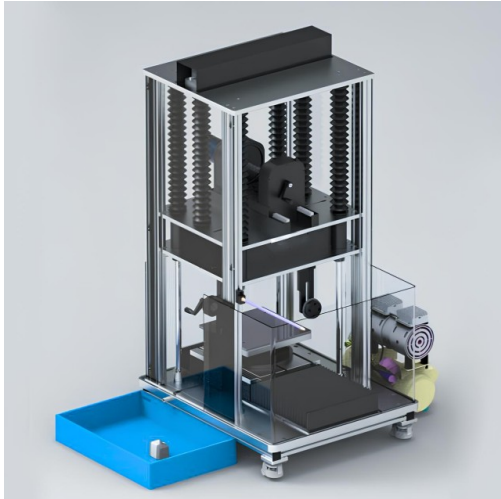
Diamond wire cutting machines are mainly used for precision cutting of ceramics, crystals, glass, metals, rocks, thermoelectric materials, infrared optical materials, composite materials, biomedical materials and other material analysis samples. Especially suitable for precision cutting of ultra-thin plates with thickness up to 0.2mm.

[Learn More](#)

Wire winding drum motor parameters	AC220v 50Hz 300
Linear speed	0-8m/s
Total length of cutting line	150m
Sample weight (max)	3kg
Z-axis stroke	≤ 160mm
Y-axis stroke	≤ 180mm
Cutting sample diameter (max)	Φ 150 mm
Tensioning structure	Pneumatic tensioning
Tension adjustment range	0.1-0.4MPa
Diamond wire diameter	
Size	617x620x1500mm
Weight	183kg

# 12 Inch/24 Inch High Precision Automatic Diamond Wire Cutting Machine

Item Number: CM-3



## Introduction

The high precision automatic diamond wire cutting machine is a versatile cutting tool that uses a diamond wire to cut through a wide range of materials, including conductive and non-conductive materials, ceramics, glass, rocks, gems, jade, meteorites, monocrystalline silicon, silicon carbide, polycrystalline silicon, refractory bricks, epoxy boards, and ferrite bodies. It is especially suitable for cutting various brittle crystals with high hardness, high value, and easy to break.

[Learn More](#)

Power supply	220V 50Hz
Power	
Spindle motor	AC variable frequency motor, power 250W
Y, Z, R-axis motors	precision stepper motors
Cutting line wire transportation speed	0-8m/s adjustable,digital display
Total length of cutting line	≤ 150m
Cutting line diamete	≤ 0.45mm
Y-axis travel	≤ 300mm, digital display
Z-axis travel	≤ 300mm, digital display
Y and Z axis feed indication accuracy	0.01mm
Workbench corner	0-360 ° Resolution 0.01 ° Digital display
Workbench repeat positioning accuracy	
Cutting sample size	∅ 300mm × 300mm (max)



## Kintek Solution

Head Quarter: No.89 Science Avenue, High-Tech Zone,  
Zhengzhou, China

Hongkong Office: 300 Lockhart Road, Wan Chai,  
Hongkong

Canada Office: Boulevard Graham, Mont-Royal, QC, H3P  
2C7, Canada

