



KINTEK SOLUTION

## Laboratory Saw Catalog

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# KINTEK SOLUTION

## COMPANY PROFILE

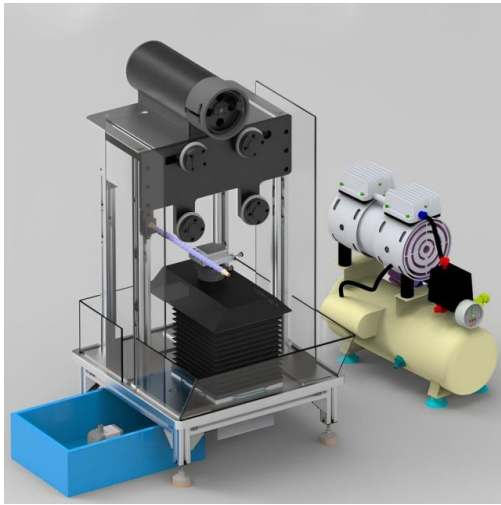
### >>> About Us

KinTek Group Limited 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, vaccum creating, refrigerating, as while as pharmaceutical and petroleum extracting equipment.



# 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.

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<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

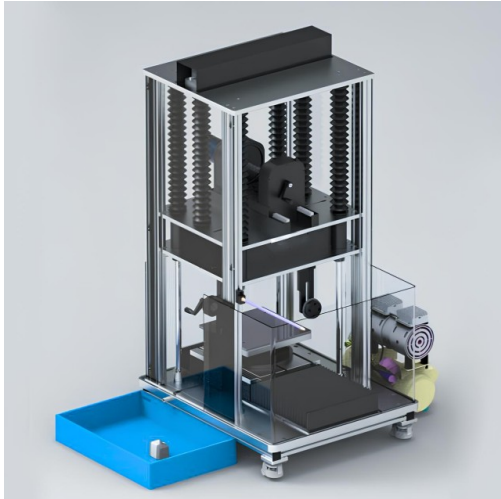
Diamond wire cutting machines are mainly used for precision cutting of ceramics, crystals, glass, metals, rocks, thermoelectric materials, infrared optical materials, composite materials, biomedical materials and other material analysis samples. Especially suitable for precision cutting of ultra-thin 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	<0.45mm
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**

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