

KINTEK SOLUTION

Mpcvd Catalog

Contact us for more catalogs of Sample Preparation, Thermal Equipment, Lab Consumables & Materials, Bio-Chem Equipment, etc.



KINTEK SOLUTION COMPANY PROFILE

>>> About Us

Company Profile

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

Products & Services

Kintek Solution Ltd is headquartered in Zhengzhou, the capital city of Henan Province, China, and its core business includes the manufacture, distribution and sale of all types of scientific research equipment and laboratory consumables. The wide range of products and services covers the following main areas:

- Sample Preparation Equipment: We provide high-performance sample preparation equipment such as tablet presses, ball mills, vibrating sieves and tablet punching machines, which are capable of meeting a wide range of sample preparation needs and ensuring high quality experimental data and research results.
- **Thermal Equipment:** Our thermal equipment includes tube furnaces, sintering furnaces, vacuum furnaces, atmosphere furnaces, graphite furnaces, dental furnaces, rotary furnaces, and high-temperature furnaces (e.g., MPCVD, CVD, PECVD, electric rotary kilns). These facilities excel in high-temperature processing and materials synthesis, meeting a wide range of needs from basic research to industrial production.
- **Biochemical equipment:** We offer a wide range of biochemical laboratory equipment, including rotary evaporators, vacuum pumps, cold trap chillers,



heating circulators, reactors, short-range distillation equipment, sterilization equipment, and homogenizers. These equipments are widely used in the fields of chemical reaction, biological processing and pharmaceutical manufacturing.

 Laboratory Consumables: We supply a wide range of laboratory consumables such as fine ceramic products, electrochemical consumables, PTFE material products, high purity materials, battery materials, chemical vapor deposition materials, optical materials, thin film deposition components and glass materials. These consumables provide the necessary support for laboratories to ensure the smooth running of experimental processes.

Technological Advantages

Kintek Solution Ltd has significant technological strengths in the field of scientific research equipment and technical solutions, which enable us to stand out in a competitive marketplace and support our customers with cutting-edge technology. The following are our key technological strengths:

Advanced R&D capabilities

- Technological Innovation: Our R&D team is committed to exploring and developing the latest technologies to keep our equipment at the forefront of the industry through continuous technological innovation.
- Customized solutions: Based on the specific needs of our customers, we are able to develop and provide customized equipment to meet specific research requirements and application scenarios.
- Cooperative R&D: We cooperate with leading research institutes and higher education institutions around the world to carry out R&D projects on cutting-edge technologies to ensure that our technologies are always at the forefront of the industry.

High-performance equipment

- Precision design: Our equipment adopts advanced design concepts to ensure high precision, reliability and performance to meet the stringent requirements of scientific research and industrial applications.
- Advanced materials: We use high-quality materials and components to improve the durability and stability of our equipment, extend its service life and reduce maintenance costs.



Strict quality control

- Standardized production: All equipment is manufactured in accordance with international quality standards, and each production step is strictly controlled to ensure product consistency and reliability.
- Comprehensive testing: Comprehensive performance testing and quality inspection are carried out before the equipment is delivered to ensure that it meets the customer's technical specifications and operational requirements.

Comprehensive technical support

- Technical Service: Provide comprehensive technical support and after-sales service, including equipment installation, commissioning, training and maintenance, to ensure that customers can use our products efficiently.
- Rapid Response: We have established a rapid response mechanism, which can promptly solve the problems encountered by customers in the process of use and reduce equipment downtime.

Innovative technology integration

 System Integration: We integrate advanced control systems and automation technologies into our equipment to improve operational efficiency and data accuracy, and streamline operational processes.

Through these technological advantages, Kintek Solution Ltd is able to continue to provide our customers with innovative, efficient and reliable scientific research equipment and solutions to promote the continuous progress of scientific research and industrial applications.

Market position and customers

Kintek Solution Ltd is positioned in the market as a leading global provider of high-tech research equipment and solutions, specializing in biochemical reactions, new materials research, heat treatment, vacuum manufacturing, refrigeration, as well as pharmaceuticals and oil extraction. We are committed to brand leadership in research equipment by providing innovative technology and high quality equipment to meet the needs of research organizations and industrial companies in complex research and production processes.



Core Market Positioning:

- Specialization: We focus on high technology and scientific research, providing advanced equipment and solutions for specialized research institutes, laboratories and industrial applications.
- High-end customers: Our main customers include world-renowned universities, research institutes and various industrial enterprises, which usually have high requirements for equipment performance and technology.
- Technological Innovation: We are committed to technological innovation and customized solutions to ensure that our customers receive cutting-edge technical support to meet the ever-changing needs and challenges in the market.

Market Customer Groups:

- Research Institutes and Universities: including the world's leading research institutes and institutions of higher learning, who require high-performance research equipment and technical support for basic research, applied research and technology development.
- Industrial companies: covering a wide range of industries such as pharmaceuticals, oil extraction, new materials manufacturing and electronic materials production, these companies rely on reliable equipment and solutions to ensure product quality and productivity during production.
- Laboratories and test centers: organizations that provide laboratory services and quality testing, requiring accurate laboratory equipment and instruments for sample analysis and testing.
- Technology Development Companies: Companies that specialize in the development and application of new technologies and have a high demand for innovative equipment and technical solutions to support their R&D projects and technology validation.

Through clear market positioning and customer groups, we are committed to promoting scientific and technological progress, supporting the innovation and development of our global customers, and continuing to provide high-quality products and services to the market.

Team Introduction



The team at Kintek Solution Ltd is at the heart of the company's success. In order to realize our vision and maintain our leadership position in the field of high-tech research equipment, we are committed to building an exceptional team with the following attributes:

1. Professionalism

- Technical Expertise: Our team consists of technical experts and engineers in the field with deep expertise and technical backgrounds to meet complex technical challenges and innovation needs.
- Industry experience: We bring together professionals with extensive experience in the fields of research equipment, material science and engineering technology to ensure a precise grasp of market needs and technological trends.

2. Innovative Spirit

- R&D-driven: The team encourages innovative thinking and technological exploration, supports employees to participate in R&D projects on cutting-edge technologies, and continuously pushes forward the technological advancement of products and solutions.
- Flexible Adaptation: In the face of changing market environment, we have the ability to adapt quickly and flexibly to meet the changing needs of our customers.

3. Collaboration and Communication

- Cross-sectoral collaboration: The team maintains close collaboration between various departments, including R&D, production, sales and customer service, to ensure the smooth progress of projects and timely response to customer needs.
- Efficient Communication: Emphasize internal communication and information sharing, through efficient communication mechanisms and tools to ensure that all team members are consistent with the project goals and progress.

4. Customer Orientation

 Customer Service: Team members are customer-focused and committed to providing quality service and support to ensure that our customers have the best experience in using our products and solutions.



• Customized solutions: the ability to deeply understand the specific needs of customers and provide customized solutions to meet the special requirements of different customers.

5. Professional Training and Development

- Continuous Learning: We provide continuous training and learning opportunities for our team members to ensure that they are always up-to-date with the latest technology and industry knowledge.
- Career Development: We value the career development and growth of our employees, provide clear career paths and promotion opportunities, and motivate our employees to realize their personal goals and career aspirations within the company.

6. Corporate Culture

- Integrity and Responsibility: The team upholds integrity and responsibility, treats work and customers with honesty and fairness, and builds trust and long-term cooperative relationships.
- Unity and Collaboration: Focusing on the spirit of teamwork, the team emphasizes mutual support and joint efforts to achieve the company's goals and promote the overall success of the team.

By building such a highly qualified, innovation-driven and customer-oriented team, we ensure that Kintek Solution Ltd continues to lead in the field of scientific research equipment and provide excellent products and services to our customers worldwide.

At KINTEK, technology fuels our corporate spirit. This dynamic energy awaits you upon joining our team. Expect a distinctive cultural environment where our global business focus opens doors to diverse customs and traditions worldwide. Here, challenging roles promise to propel your career to new heights.

Our exceptional corporate culture sparks innovation, fosters care, and drives continuous progress among individuals and teams. Our team embodies youthfulness, positivity, enthusiasm, and a bold attitude toward challenges. Passionate about our business, our employees ardently contribute to the company's growth.

We seek individuals brave enough to embrace challenges, harbor grand ambitions, and thirst for knowledge. If you're driven by dreams and passion, and aspire to start your



entrepreneurial journey, KINTEK is the platform to actualize your career plans. We don't just offer opportunities; we pave the way for your future.

Join us at KINTEK, where innovation meets opportunity. Let's create a future that's as promising as your aspirations.

Future Plans

Kintek Solution Ltd's future plans are aimed at further strengthening our leadership position in the research equipment sector and driving the company forward in terms of technological innovation, market expansion and customer service. The following are our key future directions:

1. Technology Innovation and R&D

- Cutting-edge technology development: Continue to invest resources in the research and development of cutting-edge technologies, such as artificial intelligence, the Internet of Things and nanotechnology, in order to promote equipment intelligence and automation.
- New Product Lines: Expand existing product lines and develop equipment to meet emerging market needs, especially in the areas of biochemistry, biomedicine and high-performance materials.
- Cooperative R&D: Strengthen cooperation with international research institutes and institutions of higher learning to carry out joint R&D projects to ensure that the technology remains at the global leading level.

2. Market Expansion

- Global Market Expansion: Further expand the global market, especially in emerging markets and developing regions, establish more sales and service networks, and enhance the brand's international influence.
- Industry application: Explore and expand the application fields in other industries, such as new energy, environmental protection technology and intelligent manufacturing, to open up new business growth points.

3. Customer Service Enhancement

• Enhancement of customer support: Establish a more complete customer support system, provide 24/7 technical support and maintenance services, and ensure



the efficient experience of customers in the use of equipment.

• Customized services: Provide more customized services and solutions according to customers' individual needs to enhance customer satisfaction and loyalty.

4. Sustainable Development

- Environmentally friendly technology: Develop and adopt environmentally friendly materials and processes to reduce the environmental impact during the production and use of equipment and promote sustainable development.
- Energy saving and consumption reduction: Optimize the energy efficiency of equipment, reduce energy consumption, improve resource utilization efficiency, and support the development of green technology.

5. Internal optimization

- Intelligent management: Implement intelligent management systems and data analysis tools to improve productivity and management and reduce operating costs.
- Employee Training: Enhance employee training and skills upgrading to build a high-quality team to meet changing market demands and technological challenges.

6. Innovation ecosystem

- Establishment of innovation platform: Create innovation platforms and laboratories to support employees and partners in technological innovation and product development.
- Industry Chain Cooperation: Deepen cooperation with the upstream and downstream of the industry chain, integrate resources, and promote the development and implementation of industry technical standards and market norms.

Through these future plans, Kintek Solution Ltd will continue to lead the forefront of science and technology, provide customers with more advanced and reliable products and services, and at the same time, promote the sustainable development of the enterprise and the progress of the industry.







Cylindrical Resonator Mpcvd Diamond Machine For Lab Diamond Growth

Item Number: KTWB315



Introduction

Learn about Cylindrical Resonator MPCVD Machine, the microwave plasma chemical vapor deposition method used for growing diamond gemstones and films in the jewelry and semiconductor industries. Discover its cost-effective advantages over traditional HPHT methods.

Microwave system	 Microwave frequency 2450±15MHZ, Output power 1[]10 KW continuously adjustable Microwave output power stability: Microwave leakage ≤2MW/cm2 Output wave guide interface: WR340, 430 with FD-340, 430 standard flange Cooling water flow: 6-12L/min System standing wave coefficient: VSWR ≤ 1.5 Microwave manual 3 pin adjuster, excitation cavity, high-power load Input power supply: 380VAC/50Hz ± 10%, three-phase
Reaction chamber	 Vacuum leakage rate The limit pressure is less than 0.7 Pa(Standard setup with Pirani vacuum gauge) The pressure rise of chamber shall not exceed 50Pa after 12 hours of pressure maintaining Working mode of reaction chamber: TM021 or TM023 mode Cavity type: Cylindrical resonant cavity, with maximum bearing power of 10KW, made of 304 stainless steel, with water-cooled inter-layer, and high purity quartz plate sealing method. Air intake mode: Top annular uniform air intake Vacuum sealing: The bottom connection of the main chamber and the injection door are sealed with rubber rings, the vacuum pump and bellows are sealed with KF, the quartz plate is sealed with a metal C-ring, and the rest are sealed with CF Observation and temperature measurement window: 8 observation port Sample load port in front of chamber Stable discharge within the pressure range of 0.7KPa~30KPa (the power pressure shall be matched)
Sample holder	 Diameter of sample table≥72mm, effective use area≥66 mm Base plate platform water-cooled sandwich structure Sample holder can be lifted and lowered evenly electrically in the cavity
Gas flow system	 All metal welding air disk Welding or VCR joints shall be used for all internal gas circuits of the equipment. 5 channels MFC flow meter, H2/CH4/O2/N/Ar. H2: 1000 sccm; CH4:100 sccm; O2: 2 sccm; N2: 2 sccm; Ar: 10 sccm Working press 0.05-0.3MPa, accuracy ±2% Independent Pneumatic valve control for each channel flow meter
Cooling system	 3 lines water cooling, real-time monitoring of temperature and flow. The system cooling water flow is ≤ 50L/min The cooling water pressure is
Temperature sensor	 The external infrared thermometer has a temperature range of 300-1400 °C Temperature control accuracy



Control system

• Siemens smart 200 PLC and touch screen control are adopted.

- The system has a variety of programs, which can realize the automatic balance of growth temperature, accurate control of growth air pressure, automatic temperature rise, automatic temperature drop and other functions.
- The stable operation of the equipment and comprehensive protection of the equipment can be achieved through the monitoring of water flow, temperature, pressure and other parameters, and the reliability and safety of the operation can be guaranteed through functional interlocking.

Optional function Center monitoring system

Substrate basing power



Bell-Jar Resonator Mpcvd Diamond Machine For Lab And Diamond Growth

Item Number: KTMP315



Introduction

Get high-quality diamond films with our Bell-jar Resonator MPCVD machine designed for lab and diamond growth. Discover how Microwave Plasma Chemical Vapor Deposition works for growing diamonds using carbon gas and plasma.

Microwave system	 Microwave frequency 2450±15MHZ, Output power 1□10 KW continuously adjustable Microwave output power stability: Microwave leakage ≤2MW/cm2 Output wave guide interface: WR340, 430 with FD-340, 430 standard flange Cooling water flow: 6-12L/min System standing wave coefficient: VSWR ≤ 1.5 Microwave manual 3 pin adjuster, excitation cavity, high-power load Input power supply: 380VAC/50Hz ± 10%, three-phase
Reaction chamber	 Vacuum leakage rate The limit pressure is less than 0.7 Pa(Standard setup with Pirani vacuum gauge) The pressure rise of chamber shall not exceed 50Pa after 12 hours of pressure maintaining Working mode of reaction chamber: TM021 or TM023 mode Cavity type: Butterfly resonant cavity, with maximum bearing power of 10KW, made of 304 stainless steel, with water-cooled inter-layer, and high purity quartz plate sealing method. Air intake mode: Top annular uniform air intake Vacuum sealing: The bottom connection of the main chamber and the injection door are sealed with rubber rings, the vacuum pump and bellows are sealed with KF, the quartz plate is sealed with a metal C-ring, and the rest are sealed with CF Observation and temperature measurement window: 4 observation ports Sample load port in front of chamber Stable discharge within the pressure range of 0.7KPa~30KPa (the power pressure shall be matched)
Sample holder	 Diameter of sample table≥70mm, effective use area≥64 mm Base plate platform water-cooled sandwich structure Sample holder can be lifted and lowered evenly electrically in the cavity
Gas flow system	 All metal welding air disk Welding or VCR joints shall be used for all internal gas circuits of the equipment. 5 channels MFC flow meter, H2/CH4/O2/N/Ar. H2: 1000 sccm; CH4:100 sccm; O2: 2 sccm; N2: 2 sccm; Ar: 10 sccm Working press 0.05-0.3MPa, accuracy ±2% Independent Pneumatic valve control for each channel flow meter
Cooling system	 3 lines water cooling, real-time monitoring of temperature and flow. The system cooling water flow is ≤ 50L/min The cooling water pressure is
Temperature sensor	 The external infrared thermometer has a temperature range of 300-1400 °C Temperature control accuracy



Control system

• Siemens smart 200 PLC and touch screen control are adopted.

- The system has a variety of programs, which can realize the automatic balance of growth temperature, accurate control of growth air pressure, automatic temperature rise, automatic temperature drop and other functions.
- The stable operation of the equipment and comprehensive protection of the equipment can be achieved through the monitoring of water flow, temperature, pressure and other parameters, and the reliability and safety of the operation can be guaranteed through functional interlocking.

Optional function Center monitoring system

Substrate basing power



Drawing Die Nano-Diamond Coating Hfcvd Equipment

Item Number: MP-CVD-100



Introduction

The nano-diamond composite coating drawing die uses cemented carbide (WC-Co) as the substrate, and uses the chemical vapor phase method (CVD method for short) to coat the conventional diamond and nano-diamond composite coating on the surface of the inner hole of the mold.

Learn More

Comparation table between traditional and nano diamond coated drawing die

HFCVD technical composition			
Technical Parameters	Equipment composition	System Configuration	
Bell Jar: Dia. 500mm, Height 550mm, SUS304 stainless steel chamber; inner stainless steel skin insulation, lifting height is 350mm;	A set of vacuum chamber (bell jar) main body (jacketed water-cooling structure)	Vacuum chamber (bell jar) main body;The cavity is made of high-quality 304 stainless steel; Vertical bell jar: the jacketed water-cooling jacket is installed on the overall periphery of the bell jar. The inner wall of the bell jar is insulated with stainless steel skin, and the bell jar is fixed on the side . Accurate and stable positioning ; Observation window: horizontally arranged in the middle of the vacuum chamber 200mm Observation window, water cooling, baffle, side and upper configuration 45 Degree bevel angle, 50° observation window (observe the same point as the horizontal observation window, and the sample supporting platform); the two observation windows maintain the existing position and size.Bell jar bottom is 20mm higher than the plane of the bench , set cooling; the holes reserved on the plane, such as large valves, air release valves, air pressure measurement, bypass valves, etc., are sealed with metal mesh and reserved for installing electrodes Interface;	
Equipment table: L1550* W900*H1100mm	One set of drag sample table device (adopting double- axis drive)	Sample holder device: Stainless steel sample holder (welding water cooling) 6- position device; it can be adjusted separately, only up and down adjustment, the up and down adjustment range is 25mm, and the left and right shaking is required to be less than 3% when going up and down (that is, the left and right shaking of rising or falling by 1mm is less than 0.03mm), and the sample stage does not rotate when rising or falling.	
Ultimate vacuum degree: 2.0×10- 1Pa ;	A set of vacuum system	Vacuum system: Vacuum system configuration: mechanical pump + vacuum valve + physical bleed valve + main exhaust pipe + bypass; (provided by the vacuum pump supplier), the vacuum valve uses a pneumatic valve; Vacuum system measurement: Membrane pressure.	
Pressure rise rate : ≤5Pa/h;	Two channels mass flow meter gas supply system	Gas supply system: The mass flow meter is configured by Party B, two-way air intake, the flow rate is controlled by the mass flow meter, after the two-way meeting, it enters the vacuum chamber from the top , and the inside of the air intake pipe is 50mm	
Sample table movement: up and down range is \pm 25m; it is required to shake left and right ratio when up and down by \pm 3%;	One set of electrode device (2 channels)	Electrode device: The length direction of the four electrode holes is parallel to the length direction of the support platform, and the length direction is facing the main observation window with a diameter of 200mm .	
Working pressure: use membrane gauge pressure gauge, measuring range: 0 ~ 10kPa; work constant at 1kPa ~5kPa,the constant pressure value changes plus or minus 0.1kPa;	A set of cooling water system	Cooling water system: The bell jar, electrodes, and bottom plate are all equipped with circulating water cooling pipelines, and are equipped with insufficient water flow alarm device 3.7: control system. Switches, instruments, instruments and power supply for bell lifting, deflation, vacuum pump, main road, bypass, alarm, flow, air pressure, etc. are set on the side of the stand, and are controlled by a 14 -inch touch screen; the equipment has a fully automatic control program without manual intervention, and can store data and call data	
Air intake position: air intake at the top of the bell jar, and the position of the exhaust port is located directly below the sample holder;	Control system		



Control System: PLC controller + 10-inch touch screen	A set of automatic pressure control system (original pressure control valve imported from Germany)	
Inflation system: 2 channels mass flow meter, flow range: 0- 2000sccm and 0-200sccm; Pneumatic valve valve	Resistance Vacuum Gauge	
3.1.10 Vacuum pump: D16C vacuum pump		
Technical indicators	Traditional drawing die	Nano-diamond coated drawing die
Coating Surface Grain Size	none	20~80nm
Coating diamond content	none	≥99%
Diamond Coating Thickness	none	10 ~ 15mm
Surface roughness	Ra≤0.1mm	Class A: Ra≤0.1mm Class B: Ra≤0.05mm
Coating drawing die inner hole diameter range	Φ3 ~ Φ70mm	Φ3 ~ Φ70mm
Service life span	Life span depends on working conditions	6-10 times longer
Surface friction coefficient	0.8	0.1



915Mhz Mpcvd Diamond Machine

Item Number: MP-CVD-101



Introduction

915MHz MPCVD Diamond Machine and its multicrystal effective growth, the maximum area can reach 8 inches, the maximum effective growth area of single crystal can reach 5 inches. This equipment is mainly used for the production of large-size polycrystalline diamond films, the growth of long single crystal diamonds, the lowtemperature growth of high-quality graphene, and other materials that require energy provided by microwave plasma for growth.

reaction chamber Sample holder system Gas system	 Cavity type: cooled cylindrical cavity, can carry power up to 75KW, high purity ,Stone ring seal. Inlet method: Top sprinkler head inlet. Observation temperature measurement window: 8 observation holes, evenly distributed horizontally. Sampling port: bottom lifting sampling port Sample stage diameter ≥200mm, single crystal effective use area ≥130mm. The effective use area of polycrystalline is ≥200mm. Substrate platform water-cooled sandwich structure, vertical straight up and down. Full metal welded gas plate 5-7 gas lines All internal air circuits of the equipment use welding or VCR connectors.
System cooling	 3-way water cooling, real-time monitoring of temperature and flow. System cooling water flow 120L/min, cooling water pressure
Temperature	• External infrared thermometer, temperature range 3001400 M
measurement method	

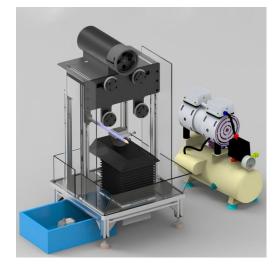


1	Microwave power supply	Standard domestic magnetron: Yingjie Electric / Distinguish power supply Domestic solid-state source: Watson (+30,000) Imported magnetron: MKS/ pastoral (+100, 000)
2	Waveguide, three pins, mode converter, upper resonator	Self made
3	Vacuum reaction chamber (upper chamber, lower chamber, connectors)	Self made
4	Infrared thermometers, optical displacement components, brackets	Infrared thermometers, optical displacement components, Fuji Gold Siemens + Schneider brackets
5	Water-cooling table motion components (cylinders, workpieces, etc.)	
6	Ceramic thin film vacuum gauge,Pirani vacuum gauge	Inficon
7	Vacuum valve components (ultra-high vacuum gate valve, precision pneumatic valve*2, electromagnetic vacuum charging differential valve)	Fujikin + Zhongke + Himat
8	Vacuum pump and connecting pipe fittings, tee, KF25 bellows*2, adapter	Pump: Flyover 16L
9	Metal microwave sealing ring*2; metal vacuum sealing ring*1; Quartz plate	Quartz: Shanghai FeilihuaSemiconductor Grade High Purity Quartz
10	Circulating water components (joints, diverter blocks, flow detectors)	Japanese SMC/CKD
11	Pneumatic part (CKD filter, airtac multi-way solenoid valve, pipe fittings and adapted	rs)
12	Gas connector, EP gas pipe, VCR connector, filter 0.0023 μ m *1, filter 10 μ m*2	Fujikin
13	Machine casing, stainless steel table, universal wheels, feet, bracket fastening screws, etc	custom processing
14	Gas flow meter*6 (including one pressure control)	Standard seven-star , optional Fuji Gold (+34,000) / Alicat (42,000)
15	Gas plate processing (5-way gas, filter*5, pneumatic valve*5, manual valve*6, pipeline welding)	Fuji Gold
16	PLC automatic control	Siemens + Schneider
17	Molybdenum table	



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.

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

Wire winding drum motor parameters	AC220v 50Hz 300
Linear speed	0-8m/s
Total length of cutting line	150m
Sample weight (max)	Зkg
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.

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	Ø 300mm × 300mm (max)





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



info@kindle-tech.com | https://kindle-tech.com