

# Digital Sample cutting machine

PK0604/PK0705

Mould-free Cost-saving Automatic die processing



Hangzhou IECHO Science & Technology Co., Ltd



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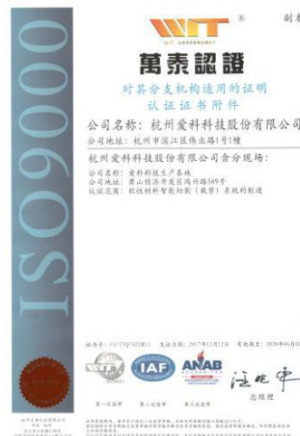
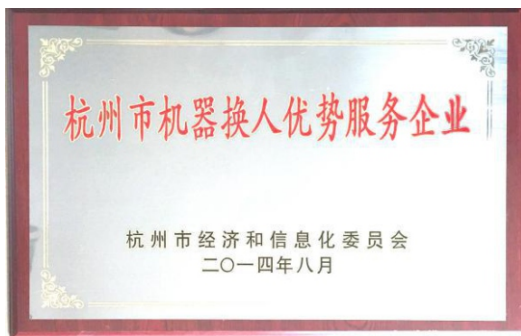
## 1 . About iECHO

Hangzhou iECHO Science & Technology Co., Ltd. was founded in 1994, worldwide supplier of digital cutting solution for a wide variety of materials of different sectors, based on technology innovations, providing the globe digital cutting solutions, systems and services. IECHO has more than 300 employees, R&D personnel accounted for 30%, with development and production facility of 60,000 sqm., possessing advanced production line and technology R&D center.

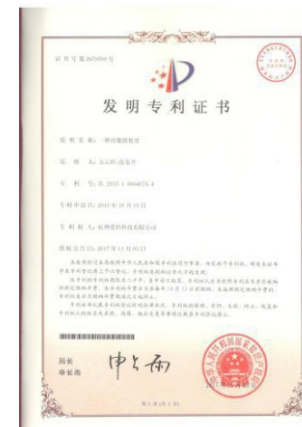
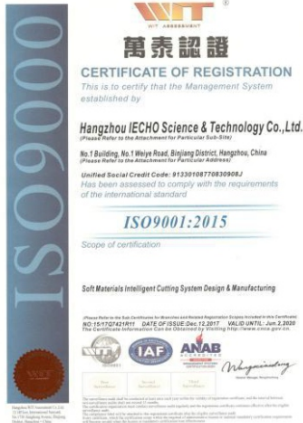
iECHO is always committed to technology innovations, based on own developed operating system of digital cutting, carrying out overall solution to digitization of enterprises, providing professional products and services to multiple industries like garment, automotive interior, advertisement, packaging, composites, luggage etc. To empower business transformation and upgrading, assist users with efficiency increasing, cost-saving, product innovating, and promote business by providing remarkable value.



## 2 . iECHO Certificates and Patents







### 3 . Model Introduction



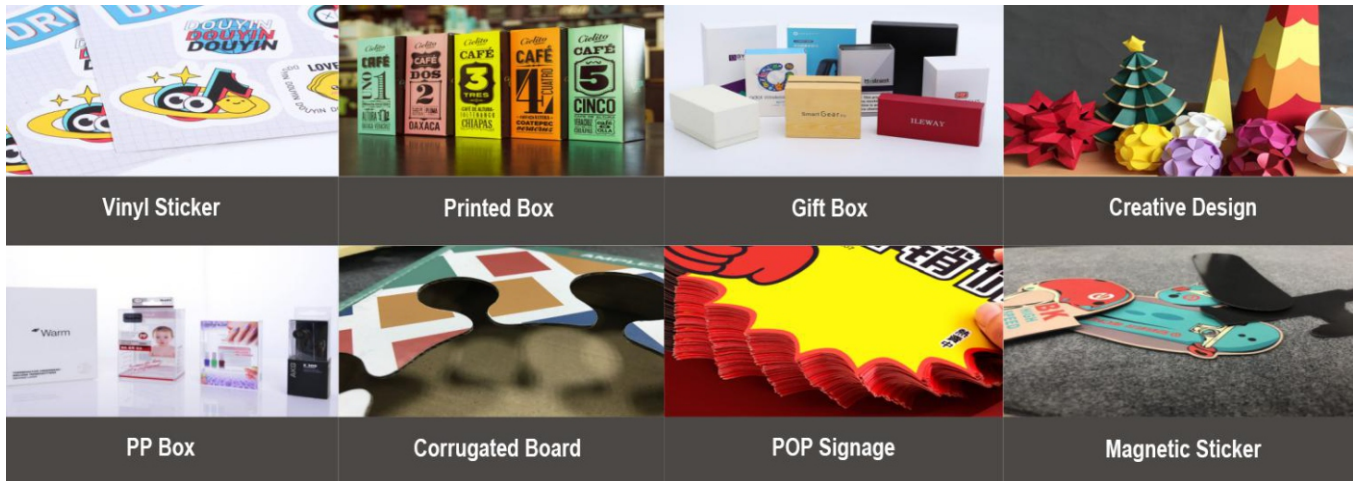
**Automatic Digital Cutting Plotter PK0604/0705 Series**

iECHO PK series automatic digital cutting plotter, is an intelligent digital cutting system designed for graphic, advertising, printing/packaging, sign graphics sample making and short run production. iECHO advanced 6-axis high speed motion control system, can perform fast and accurate process like through cutting, kiss-cut, creasing, dotted cut, perforation, marking etc., all functions on one machine. The model is equipped with automatic feeding system, HD vision positioning system with CCD Camera, to realize fully automatic production. It can assist customers to produce easily precise, innovative, unique, high quality value added product in limited time and space.

**Processing materials:** cardboard, gray board, corrugated board, honeycomb board, PP board, PVC, EVA, EPE, rubber etc.

### Features

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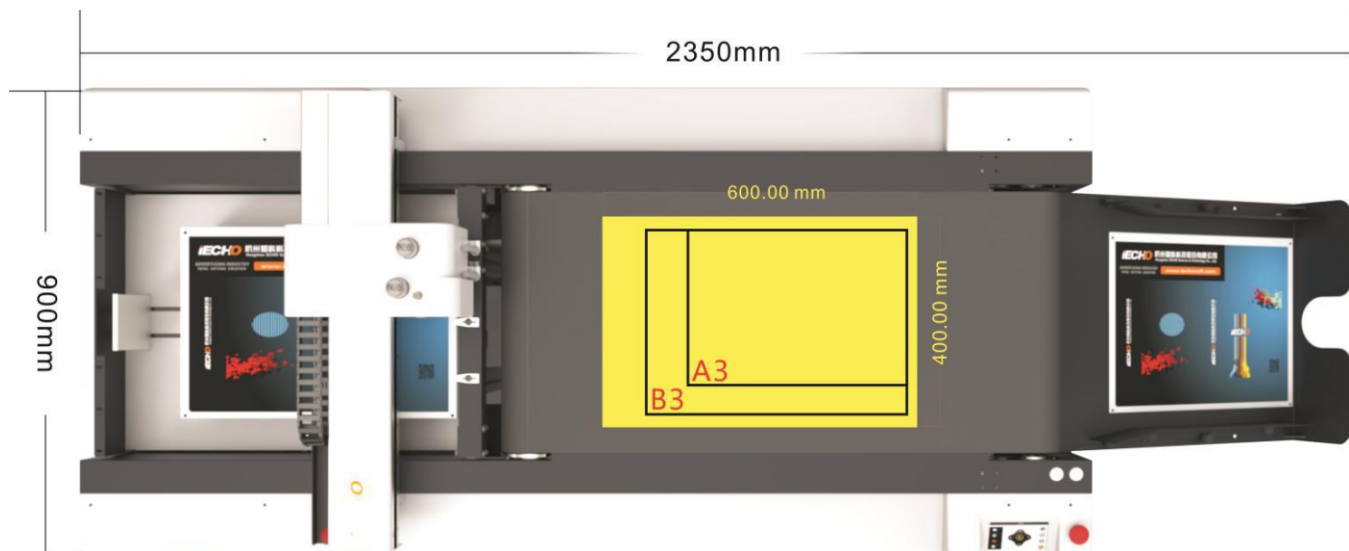
- Integrated design: machine adopts an integral welding frame, ergonomically designed and small size. the smallest model occupies 2 sqm. Wheels make it easy to move around.
- Only 220V single phase electricity required, vacuum suction system is used to fix material on the table during cut.
- Automatic loading device: It can automatically load material sheets on the cutting table continuously, material stack up to 120mm (400pcs card board of 250g).
- Conveyor belt automatically send finished material to collecting area.
- Equipped with electric oscillating Tool(EOT), it can cut material up to 6mm, enable to process variable materials.
- Pneumatic creasing tool, tool pressure up to 4 kg, creasing clear and easy to bend. Card paper more than 400g can be processed.
- Equipped with two graphic cutting tool(Drag knife), separate cutting pressure and depth can be set, which makes operation much convenient when change cutting materials frequently.
- Three type tools are available and they can be switched automatically by the system.

- High precision vision registration system (CCD): with high resolution CCD camera, it can realize accurate contour cutting on different materials.
- Software is easy to operate, one click to start, no need complicated settings.



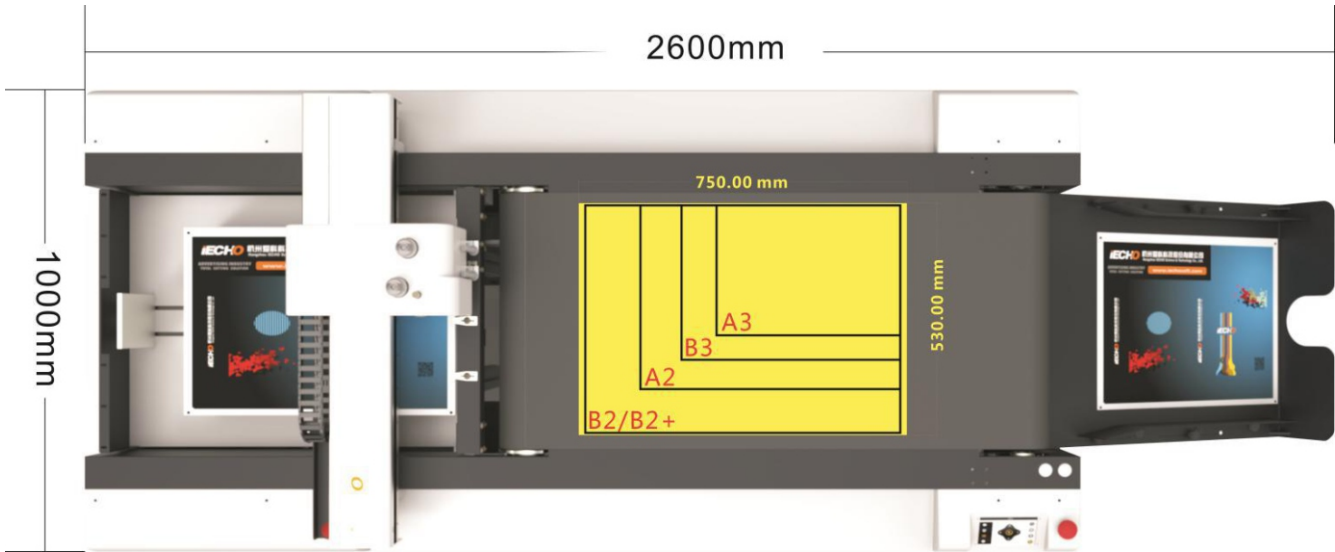
### PK function module

### Cutting dimension/ Machine size



PK0604 cutting area 600mmX400mm





PK0705 cutting area 750mmX530mm

## Cutting head introduction



Head(standard)

Configuration:  
Two graphic tool  
One creasing tool



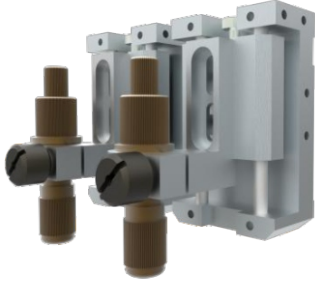
head(Plus)

Configuration:  
Two graphic tool  
One creasing tool  
One electric oscillating tool(EOT)

## Cutting tools introduction

**Graphic tool** : Mainly using for vinyl (label material) cutting, positioning process materials precisely, by tool nose position adjustment. Strike top layer materials precisely without

breaking bottom materials at high speed. 5 levels for tool pressing force control, maximum pressing force 4KG.



Material: Vinyl, adhesive sticker, car sticker, reflective film, card board, 3M

### Creasing tool :

The Creasing tool for card board, corrugated board and other materials. Different creasing wheel to get the best processing results. Maximum pressure is 6KG.



Materials: card board, corrugated board, PP board, PVC, etc.

**Electric Oscillating Tool (EOT):** It cuts the material by high-frequency vibration of the DC motor, which is suitable for cutting medium-density materials. With various blades, it can process different materials, minimum of 1.5mm arc can be cut.



Materials: Cardboard, gray board, corrugated board, honeycomb board, vertical corrugated board, PVC, EVA, EPE, rubber blanket, resin plate, foam, PP board etc.

## High precision vision registration system (CCD)

With high definition CCD camera, it can make automatic and accurate registration contour cutting of various printed materials, to avoid manual positioning and printing error, for simple and accurate cutting. Multiple positioning method can meet different materials processing demands, to fully guarantee the cutting accuracy.

- Dot/ cross mark
- Backside CCD registration cutting.
- Edge-scanning positioning cutting: To make positioning contour cutting on printed materials by scanning material edges.

## Automatic sheet loading system

Automatic sheets loading system suitable for printed materials automatic processing in short run production.



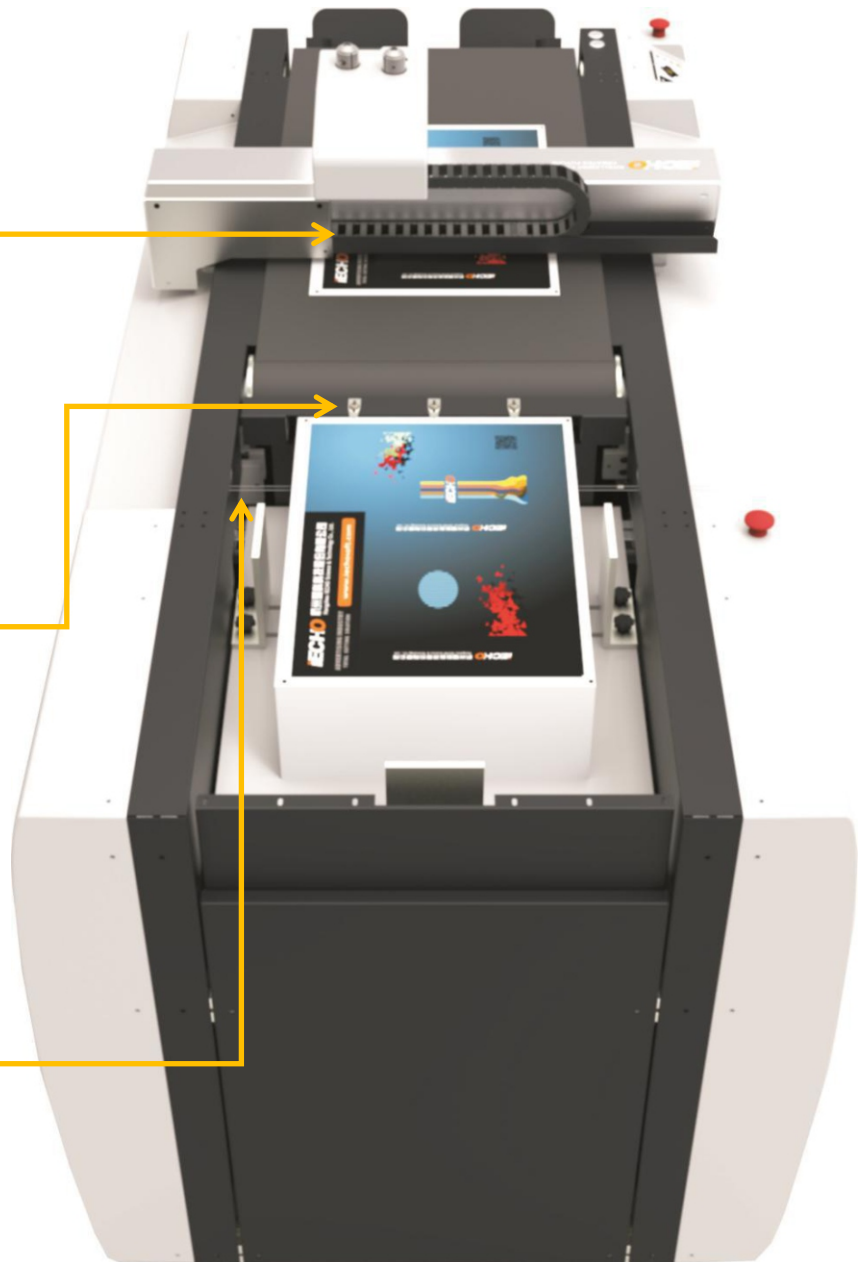
suspension sheet loading disc



Material separating device



Infrared sensor





## Built-in Computer



1. With the specialized built-in computer on the PK models, people no need to prepare the computer and install the software by themselves.
2. The built-in computer also can be operated in Wi-Fi mode, which is a smart and convenient option for the market.

## QR code scanning system



iECHO software supports QR code scanning to retrieve relevant cutting files saved in the computer to conduct cutting tasks, which meets the customers' requirements for cutting different types of materials and patterns automatically and continuously, saving human labor and time.

## Roll Materials Feeding System



The roll materials feeding system adds the additional value to PK models, which can not only cut sheet materials, but also roll materials such as vinyls to makes labels and tags products, maximizing customers' profits by using IECHO PK.

## Features of software

- | Professional digital die cutting application software.
- | Seamless connection with designing software and box design software, compatible with CDR, AI, Artios cad, KASEMAKE, Box-Vellum, packaging magician, etc.
- | With layered operation process, software operation follows the mainstream design software style, which is more in line with the designer's operation habit.
- | The software can automatically match the data to cutting, creasing, dotted line and other processes, without additional manual settings, and cut directly after import.
- | Marking point plug-in software module can automatically generate registration marks in AI and CDR.
- | 6 positioning method, compatible with different printing marks.
- | Automatically connect segments in cutting file to improve cutting efficiency.
- | Automatically set and generate dotted line in the cutting file.
- | Convenient operation: Convenience and efficiency is important symbol of IBrightcut system. With the guidance of IECHO professional technicians, you will know the basic operation of IBrightcut system within 1 hour, and you can master the operation of the IBrightcut system in one day.
- | You can configure the display and position of each shortcut according to your own habits and preferences; you can set the position where the machine head stays after completing the task; you can set the when to automatically turn off the vacuum pump and turn off the vacuum pump after the task is completed.



Cloud service module: Customers can enjoy fast online services through the cloud service module.

The service content includes: remote problem diagnosis. Customers can get the help of professional network engineers remotely before the engineer has come to the service.

Remote system upgrade: We will release the latest operating system to the cloud service module in time, and customers can upgrade online for free.

## Cutting materials



KT board



Sticker/Vinyl



PP paper



Foam board



Reflective materials



Cardboard



PE



Corrugated board



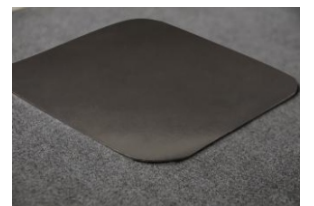
Grey board



Plastic Corrugated



ABS



Magnetic vinyl



## Parameters

Cutting Head Type	PK		PK Plus	
Machine Type	PK0604	PK0705	PK0604 Plus	PK0705 Plus
Cutting Area(L*W)	600mm x 400mm	750mm x 530mm	600mm x 400mm	750mm x 530mm
Flooring Area(L*W*H)	2350mm x 900mm x 1150mm	2600mm x 1000mm x 1500mm	2350mm x 900mm x 1150mm	2600mm x 1000mm x 1500mm
Cutting TOOL	Universal Cutting Tool, Creasing Wheel, Kiss cut tool		Oscillating tool, Universal Cutting Tool, Creasing Wheel, Kiss cut tool	
Cutting Material	Car sticker/Sticker, Card Paper, PP Paper, reflective material		KT Board, PP Paper, Foam Board, Sticker, Reflective Material, Card Board, Plastic Sheet, Corrugated Board, Grey Board, Corrugated Plastic, ABS Board, Magnetic Sticker	
Cutting Thickness	≤2mm		≤6mm	
Media	Vacuum System			
Max Cutting Speed	1000mm/s			
Cutting Accuracy	± 0.1mm			
Data Format	PLT、DXF、HP/GL			
Voltage	220v ± 10%50Hz			
Power	4kw			