# FUJIFILM
**Value from Innovation**

# iECHO
DIGITAL CUTTING SYSTEMS

# **Digital Cutting Machine**

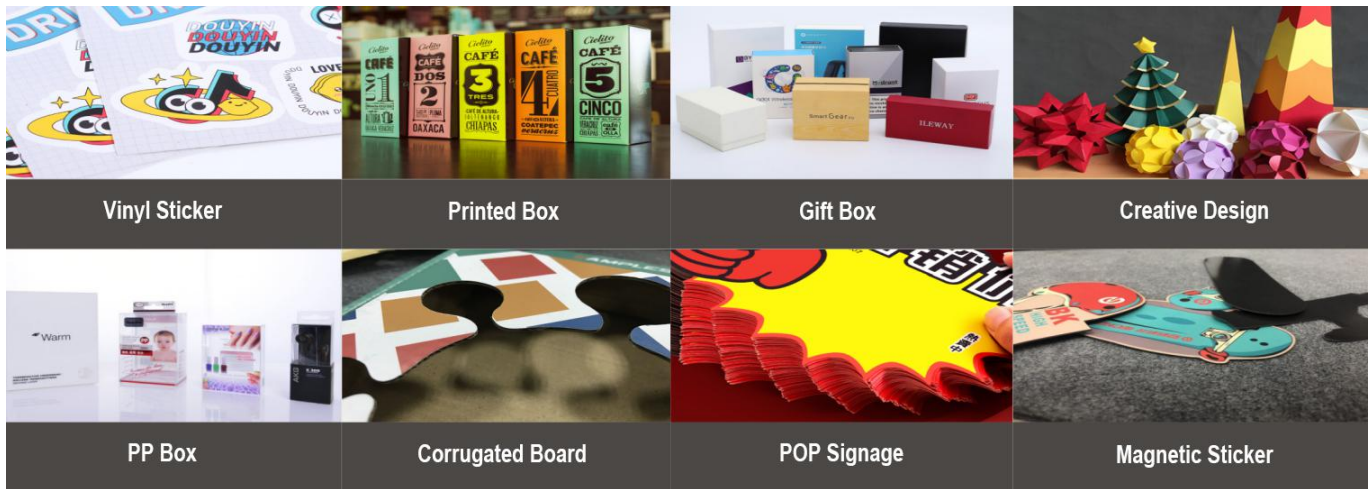## PK0604/PK0705

Cost-saving    Automatic die processing

# 3．Model Introduction

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.

Vinyl Sticker | Printed Box | Gift Box | Creative Design

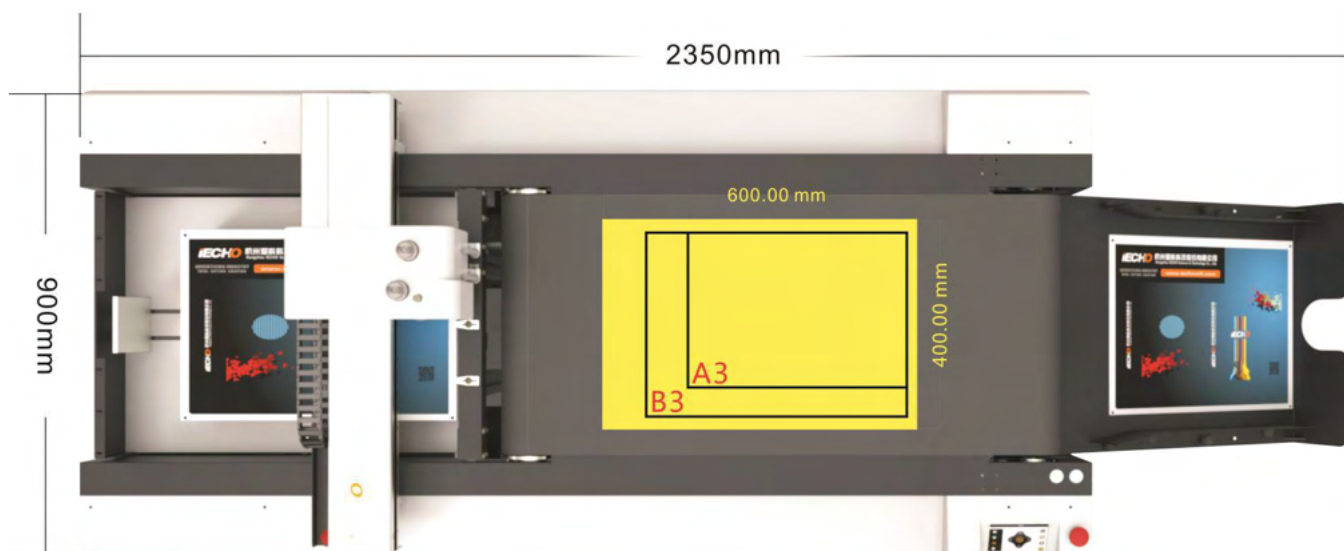PP Box | Corrugated Board | POP Signage | Magnetic Sticker

● 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.

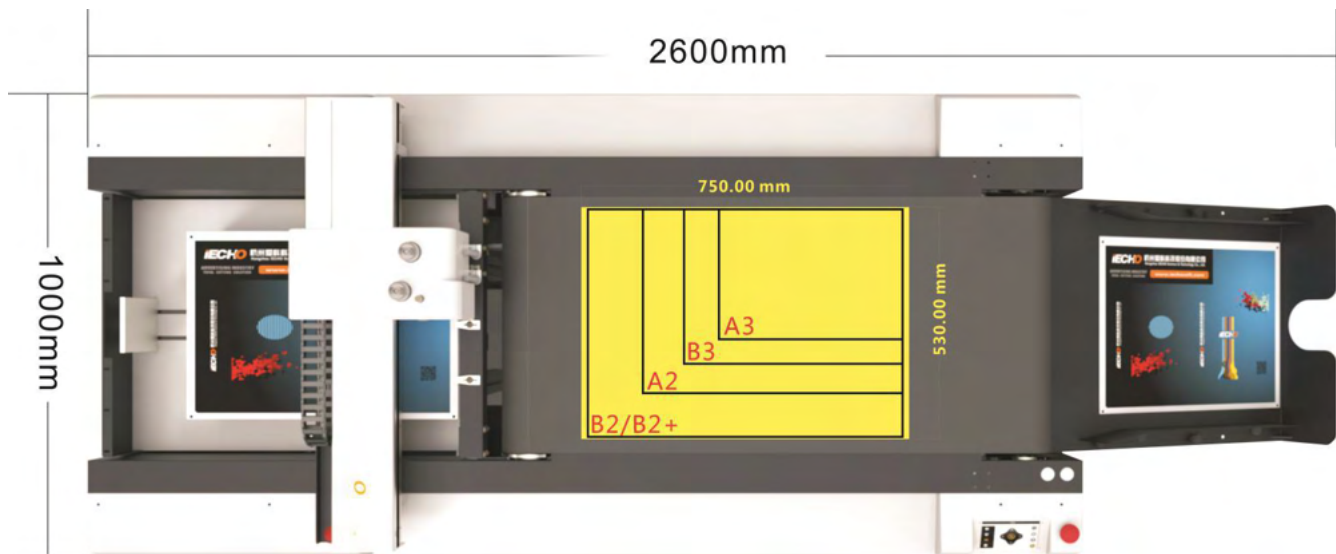● Software is easy to operate, one click to start, no need complicated settings.

**Full Automatic Feeding System**

**Cutting Area**

**Tool Module**

**Collecting Area**

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## PK function module

## Cutting dimension/ Machine size

2350mm

600.00 mm

900mm

400.00 mm

A3

B3

PK0604   cutting area 600mmX400mm

PK0705 cutting area 750mmX530mm

# Cutting head introduction



Configuration:
Two graphic tool
One creasing tool



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

Head(standard)

head(Plus)

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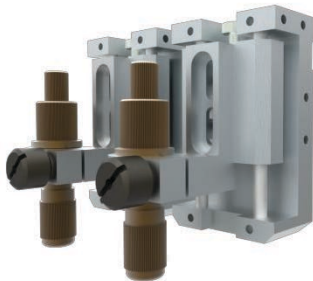
Material: Vinyl,adhesive sticker, car sticker, reflective film, card board, 3M

## 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.
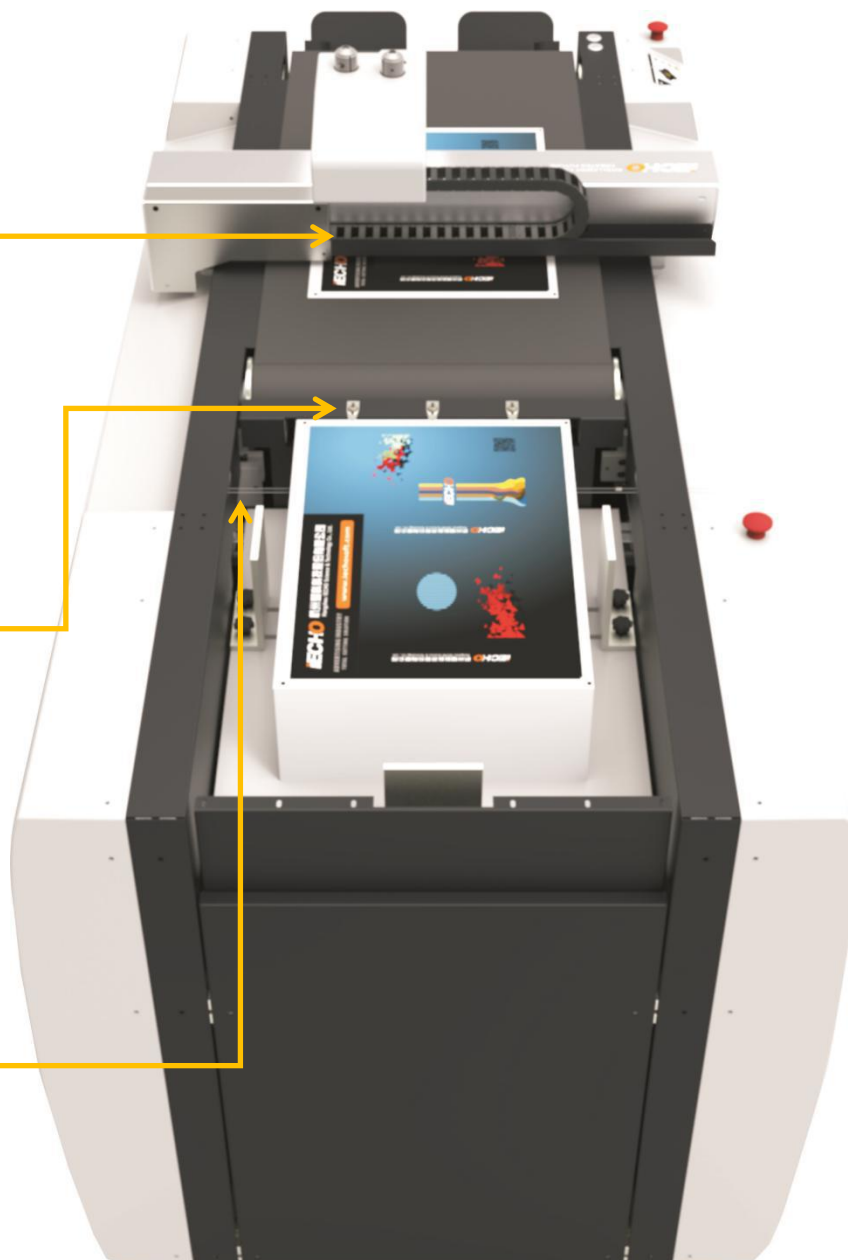
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suspension sheet loading disc

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
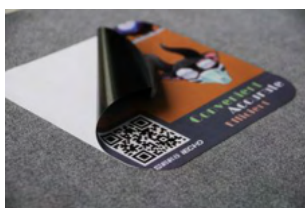
| | | | |
|---|---|---|---|
|  |  |  |  |
| KT board | Sticker/Vinyl | PP paper | Foam board |
|  |  |  |  |
| Reflective materials | Cardboard | PE | Corrugated board |
|  |  |  |  |
| Grey board | Plastic Corrugated | ABS | Magnetic vinyl |

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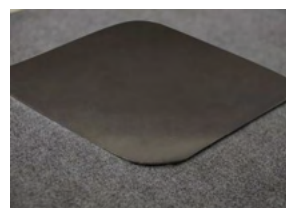
## ▶ Parameters

| Cutting Head Type | PK | | PK Plus | |
|---|---|---|---|---|
| Machine Type | PK0604 | PK0705 | PK0604 Plus | PK0705 Plus |
| Cutting Area(L*W) | 600mm × 400mm | 750mm × 530mm | 600mm × 400mm | 750mm × 530mm |
| Flooring Area(L*W*H) | 2350mm × 900mm × 1150mm | 2600mm × 1000mm × 1500mm | 2350mm × 900mm × 1150mm | 2600mm × 1000mm × 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 | | | |

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The available model varies depending on the country/region. Please ask the sales representatives for details.

The product specifications, appearance and other details in this brochure are subject to change without notice for improvements.

⚠ For Your Safety
Before using the product, read the Instruction Manual carefully for proper use. Use the product with the power source and voltage specified. Be sure to establish ground connection. Otherwise, electronic shock may result in the case of a failure or