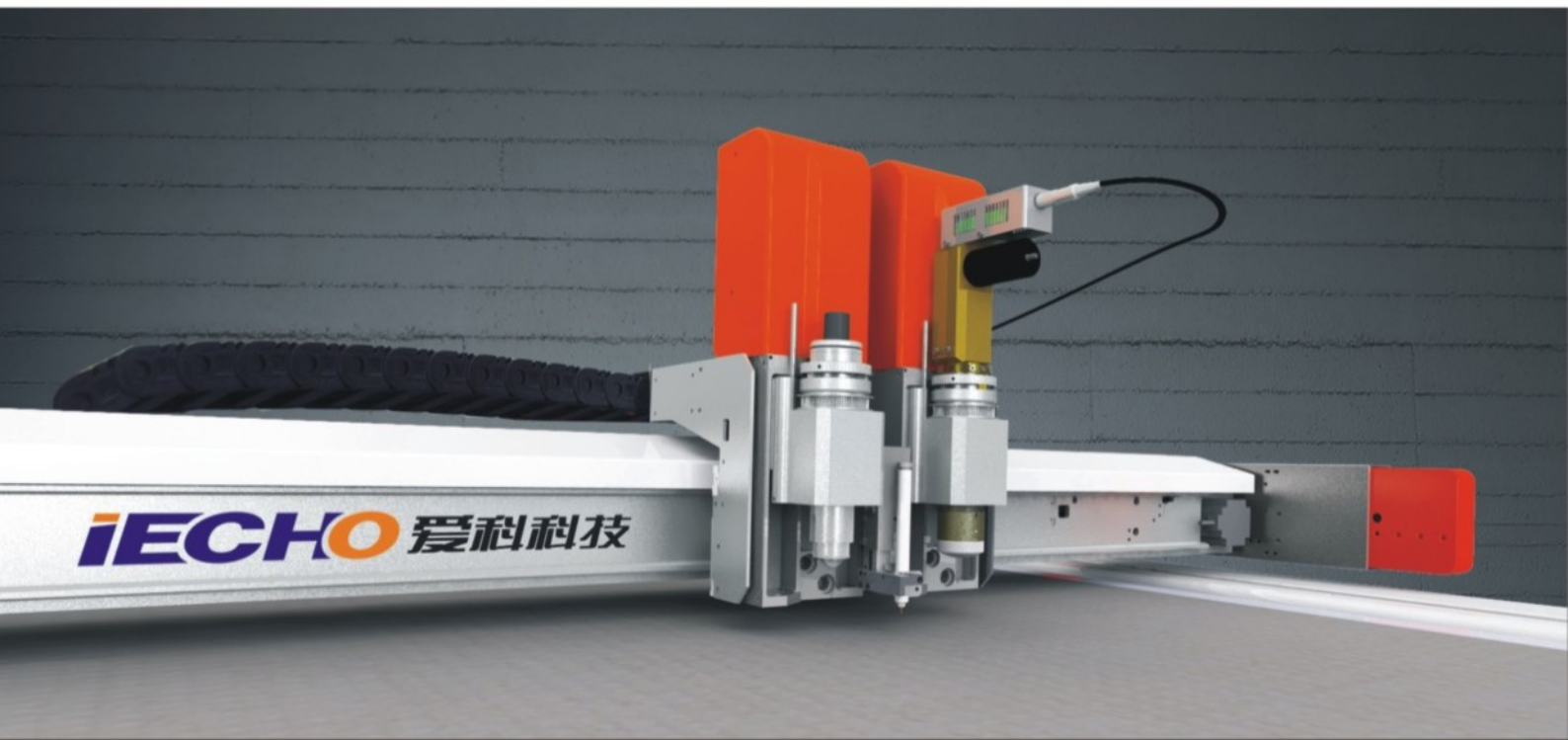


**iECHO®**



# **BK HIGH SPEED DIGITAL CUTTING SYSTEM**

FOR SIGN/GRAPHICS/ADVERTISING/PACKAGING



# ALL FUNCTIONS CAN BE REALIZED IN ONE MACHINE



## IECHO High Precision Digital Cutting System

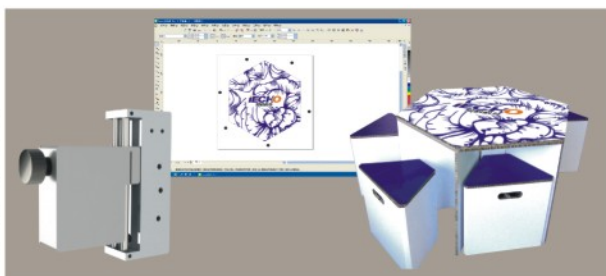
Capabilities of the BK High Precision Digital Cutting System include cutting, kiss cutting, milling, punching, creasing and marking functions with high speed and high precision. The stacking and collecting system permits rapid feeding and collection of material. The BK cutting system is well suited to sample making and both short and long production runs in sign making, advertising, printing, and packaging industries. The BK cutting system is the real all-around champion in material cutting.

# ADVANTAGES



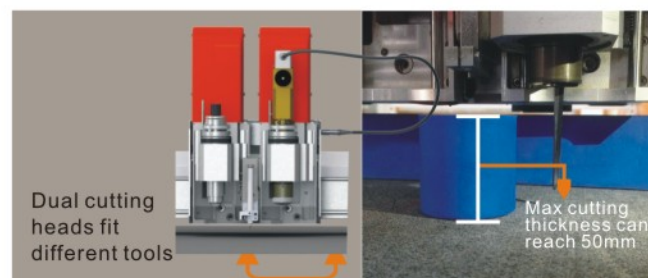
### Precise Automatic Positioning System

The BK Cutting System uses a high precision CCD camera to accurately register cutting operations to the work piece, eliminating problems associated with manual positioning and print deformation.



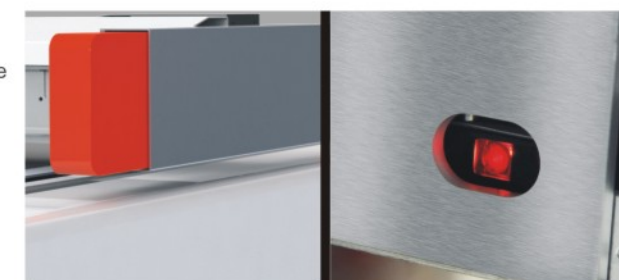
### Efficient Cutting Heads

The maximum cutting speed is 1 meter per second (4-6 times faster than manual cutting), which considerably increases production efficiency.



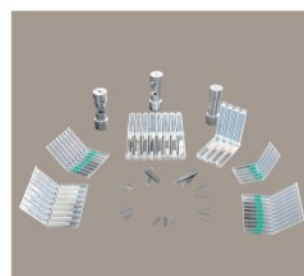
### Safety Device

Safety device ensures the security of the operator.



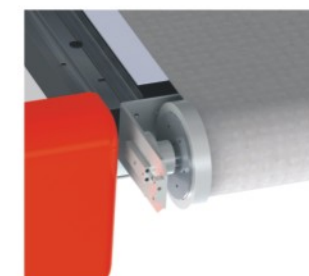
### Flexible Tool-Blade Combination

Flexible tool-blade combinations can meet the cutting requirements of different materials and different processing modes, such as through cutting, kiss cutting, milling, punching, creasing and marking, etc.



### Intelligent Conveyor System

The intelligent conveyor system coordinates feeding, cutting, and collecting operations for maximum efficiency, saving labor costs, and enhancing productivity.



### Sound Absorber Device

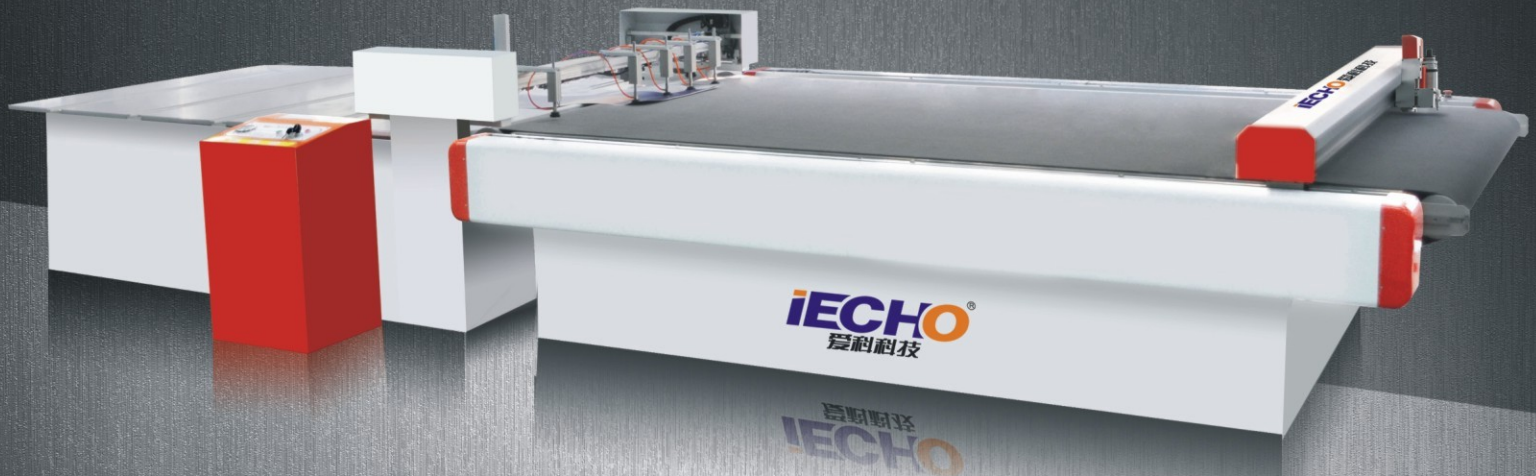
Made of sound absorbing materials, the sound absorber box reduces sound levels from the vacuum pump by 70%, providing you a comfortable working environment.





# IECHO AUTOMATIC DIGITAL PROCESSING LINE

IECHO Automatic Digital Processing Line can be used for full-time production, fulfilling the requirement of high efficiency, using the maximum capacity of the machine to realize the 24/7 production.



- The materials ready to be processed will be sent to the feeding area by the stacker.
- Feeding the materials to the cutting area through the automatic conveyor system.
- Using CCD camera to check the cutting accuracy.
- Starting cut with cutting tools.
- Finished samples will be sent to the picking up table by the conveyor system.
- The production can be finished automatically without manual intervention.

# CUTERSERVER

## ADVANTAGES OF OPERATING SYSTEM

### Material Library

The Material Library allows users to find the suitable tools, blades and parameters for cutting many materials in various industries. The Material Library can be customized by the user to retain information for reference on future projects.

### Tasks Management

Users can set the cutting task priority for the current job, review the previous task record and retrieve previous task records.

### Cutting Path Tracking

Users can track the cutting path, estimate cutting time and monitor progress of the task.

### User-friendly Experience

Users can set the shortcut icon and position according to their preference.

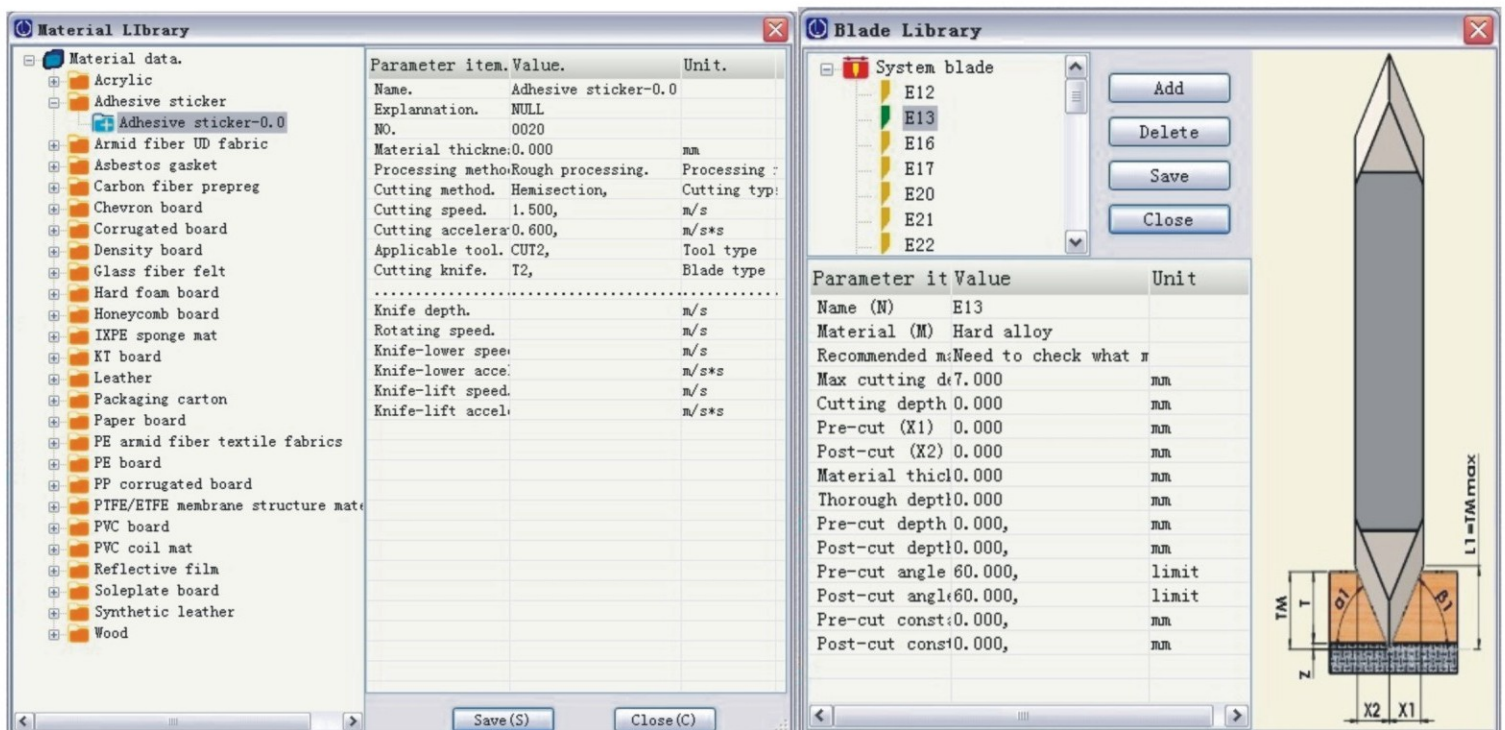
Users can set the position of the cutting head at the completion of a job.

Users can set the vacuum pump to automatically switch off after completion of the job.

### Cut Server Cloud Control Center

Customers can enjoy the fast online services through the Cloud Service, including:

1. Remote fault diagnosis: user can get the remote help from the engineer through network.
2. Remote system upgrade: users can upgrade the latest operating system through the Cloud Control Center.





# BK FUNCTIONS



IECHO Cut Server Control Center



IECHO Motion Control System



IECHO Super Power Rotary Knife



IECHO Automatic Feeding System



IECHO Continuous Cutting System



IECHO Automatic Knife Initialization



IECHO Modular Customization Solutions



IECHO Regional Adsorption System



IECHO Automatic Tension Feeding System



IECHO Automatic Outline Recognition System



IECHO Continuous Positioning Cutting System



IECHO Automatic Camera Positioning System



IECHO Safety Device



IECHO Absorber System





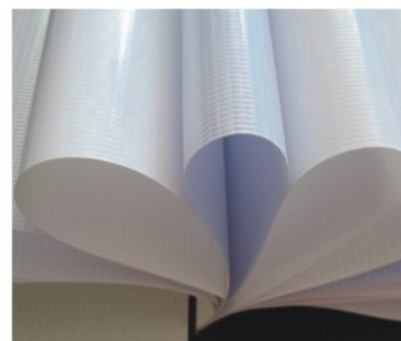
**IECHO EOT**

Electronic Oscillating Knife for cutting soft and medium density materials, available with 1mm stroke.



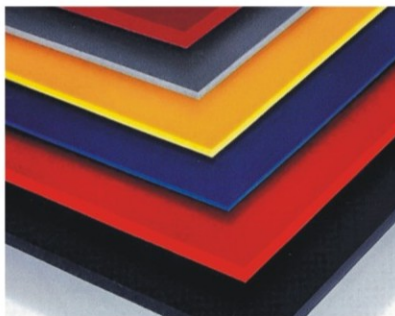
**IECHO DRT**

Driven Rotary Tool for cutting textiles.



**IECHO UCT**

Universal Cutting Tool, used for through-cutting materials with thicknesses up to 5mm, fast speed and low cost.



**IECHO KCT**

Kiss Cut Tool, for cutting vinyl, foil, films, thin paper, cardboard and other thin materials.







**IECHO RZ**

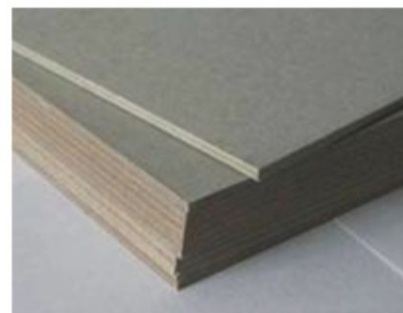
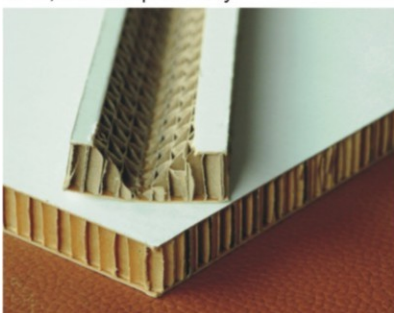
The router with high rotation speed up to 50000rpm, it delivers solid performance in a wide range of applications on the hard materials and soft form materials.

It can do precise engraving like the Kiss-Cut tool. The special dust-extraction can reduce the waste effectively during the work.



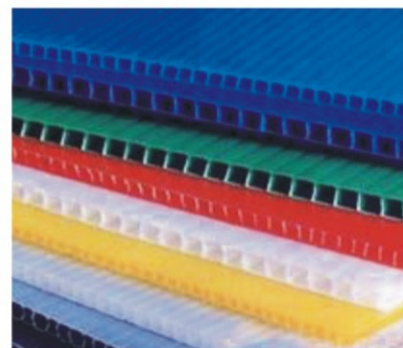
**IECHO V-CUT**

The V-Cut tool is the perfect tool for producing complex structural designs from foam core or sandwich board materials. The tool can be set for cutting 5 different angles for different cutting requests. The 5 different angles are  $0^\circ$ ,  $15^\circ$ ,  $22.5^\circ$ ,  $30^\circ$ ,  $45^\circ$  respectively.



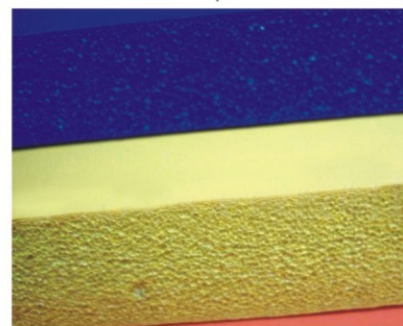
**IECHO UCT**

The tool is used to do the creasing on the corrugated materials, different creasing tools for different materials can make perfect creasing.



**IECHO POT**

The Pneumatic Oscillating tool is an air-driven tool with high frequency on the blade to cut the materials. The stroke up to 8mm is suitable for cutting hard, dense materials, it can cut materials up to 50mm thick with special blade.



# PARAMETERS

Type	BK1311	BK1713	BK2011	BK2516
Valid Cutting Area	1.3mx1.1m	1.7mx1.3m	2.0mx1.1m	2.5mx1.6m
Customized Length/Width	Length 1.3m-5.0m/Width 1.1m-5.0m			
Cutting Head	One Head/Dual Heads			
Accuracy	0.1mm			
Maximum Thickness	50mm			
Interface	Serial Port			
Maximum Speed	1000mm/s			
Pump Power	7.5KW /9KW/ 11KW			







## **COMPANY INTRODUCTION**

**IECHO was founded in 1994. It is now the leading Chinese manufacturer for automatic cutting system in sign, graphics, packaging, garment, leather, composite industries.**

**IECHO is dedicated to innovation and outstanding service. Precision and reliability are our aim. The best cost performance is our advantage. IECHO' s presence is becoming worldwide with decades of experience.**







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