iECHO

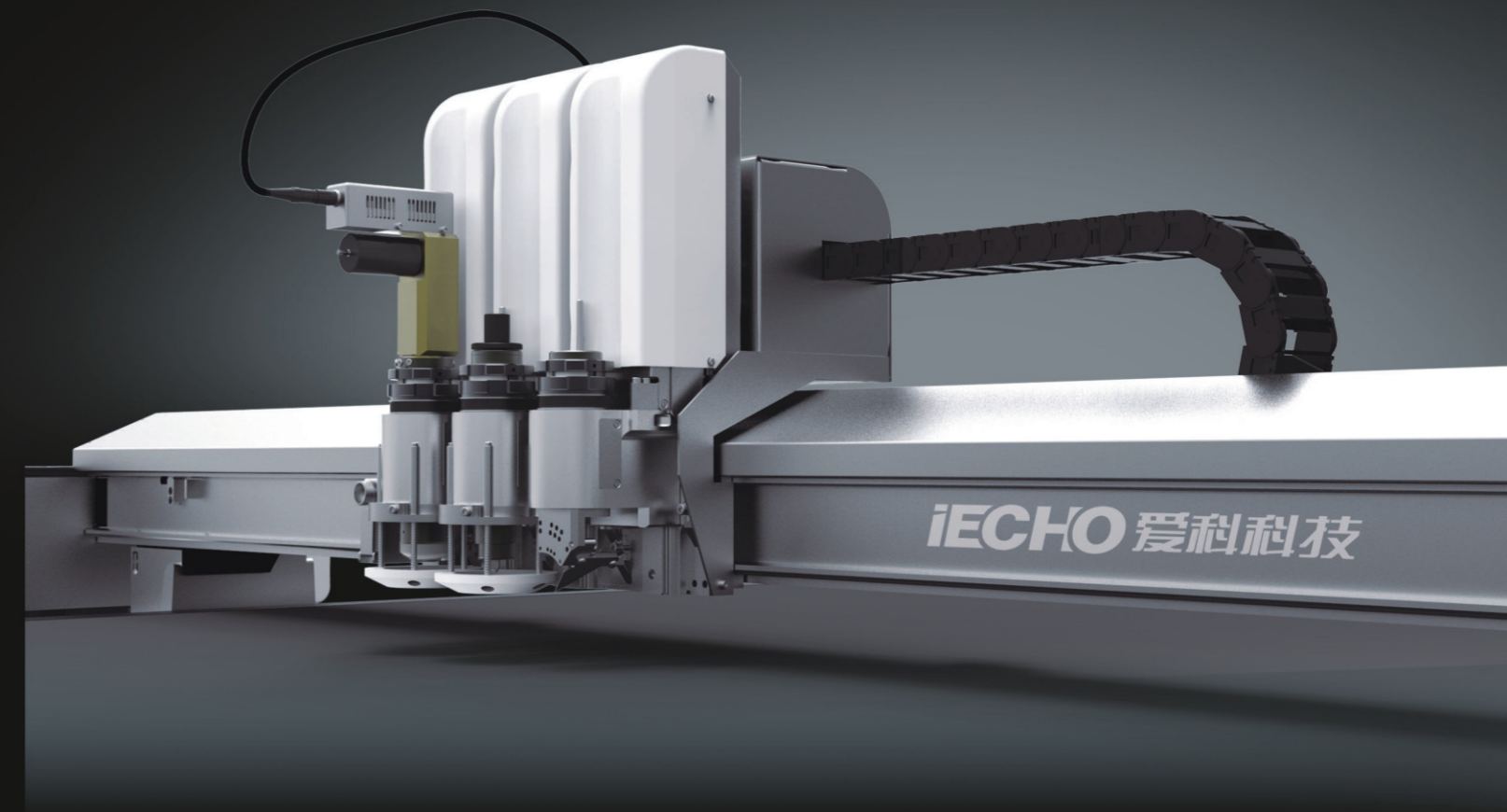# *BK3* HIGH SPEED DIGITAL CUTTING SYSTEM

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TOTAL CUTTING SOLUTION
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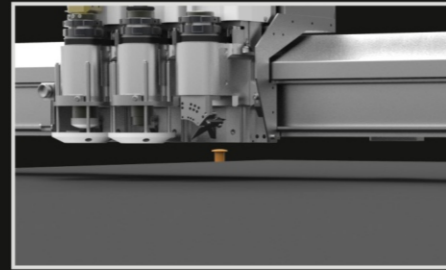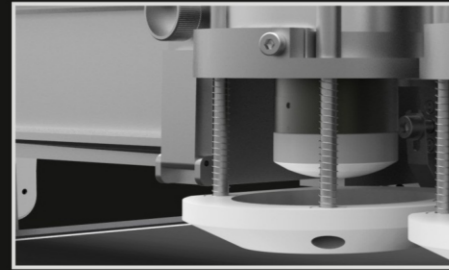
IECHO Automatic Knife Initialization

Control the cutting depth accuracy with displacement sensor through automatic knife initialization.
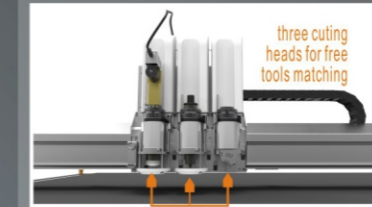
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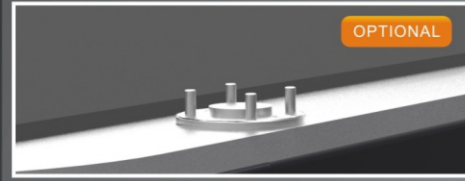
Precise Automatic Positioning System

With high precision CCD camera, BK3 realizes the precise position and registration cutting for different materials. It solves the problems of manual positioning deviation and print deformation.
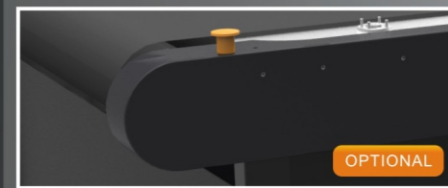
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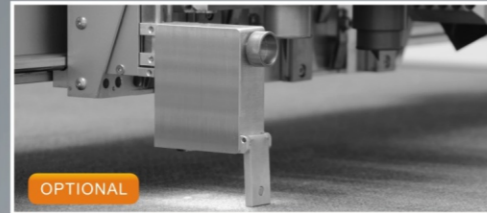
Efficient Cutting Heads

The max cutting speed is 1.5m/s(4-6 times faster than manual cutting), which considerably increase the production efficiency.

three cutting heads for free tools matching

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IECHO Continuous Cutting System

Intelligent conveyor system makes feeding, cutting and collecting to work cooperatively. Continuous cutting function can cut the long pieces, saving labor cost and increasing productivity.

OPTIONAL

Aviation Aluminum Table

Equipped with Regional Air Suction, the table has a better suction effect.
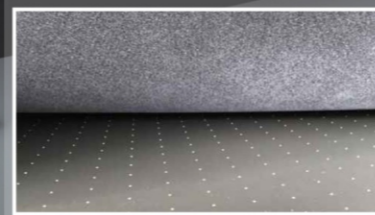
IECHO Motion Control System

CutterServer makes the cutting process smooth, efficient, perfect.

Safety Device

Safety device ensures the security of the operator.

BK3 HIGH PRECISION DIGITAL CUTTING SYSTEM

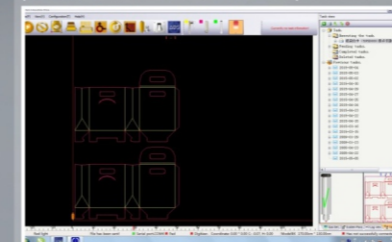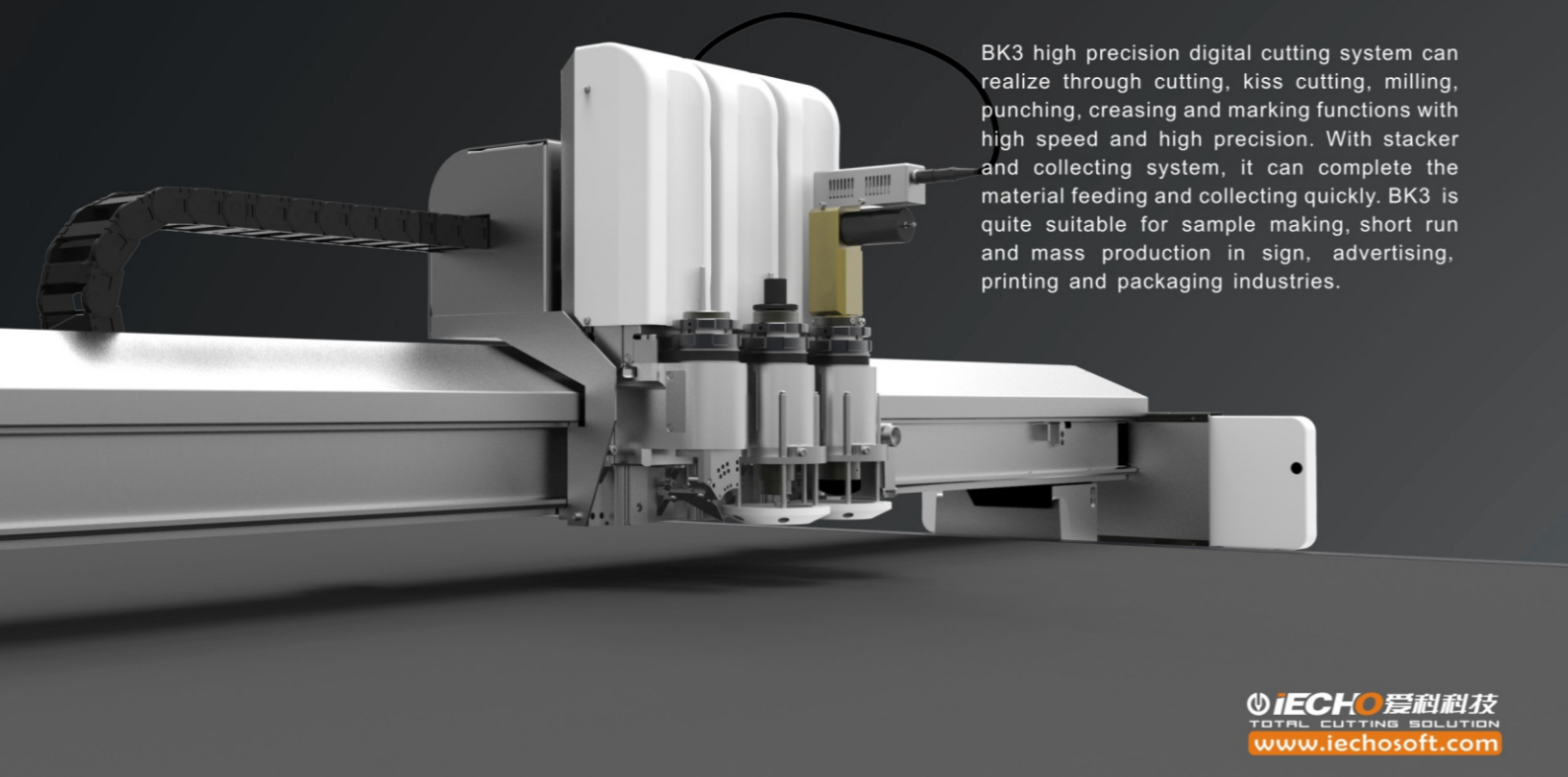BK3 high precision digital cutting system can realize through cutting, kiss cutting, milling, punching, creasing and marking functions with high speed and high precision. With stacker and collecting system, it can complete the material feeding and collecting quickly. BK3 is quite suitable for sample making, short run and mass production in sign, advertising, printing and packaging industries.

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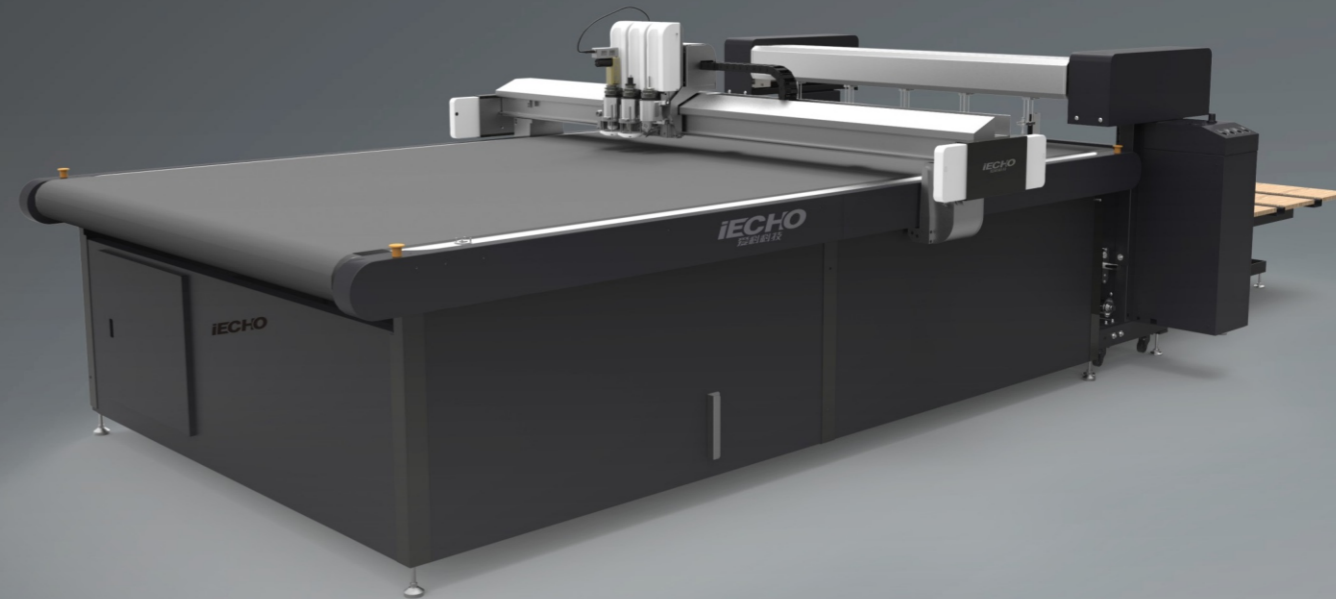TOTAL CUTTING SOLUTION
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iECHO AUTOMATIC PRODUCTION WORKFLOW

IECHO Automatic production workflow 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.

PARAMETERS

Type	BK3 1713	BK3 2513	BK3 2517
Cutting Area	1700mm x 1300mm	2500mm x 1300mm	2500mm x 1700mm
Machine Dimension	2500mm x 2100mm	3200mm x 2100mm	3200mm x 2400mm
Max Cutting Speed	1500mm/s		
Cutting Accuracy	0.1mm		
Max. Cutting Thickness	50mm		
Data Format	DXF、HPGL、PDF		
Interface	Serial Port		
Media	Vacuum System		
Pump Power	5.5KW / 7.5KW / 9KW		
Power	220V/50HZ 380V/50HZ		
Operating Environment	Temperature 0℃-40℃ Humidity 20%-80%RH		

- Material to be processed will be sent to the loading area by the sheet feeder
- Feed materials to the cutting area with automatic conveyor system
- Camera Registration System（CCD）further improves cutting accuracy
- Process with high speed cutting tools
- Finished samples will be sent to the collecting table by conveyor system
- Fully automated production minimize manual intervention

IBRIGHTCUT
ADVANTAGES OF OPERATING SYSTEM

Material Library

iBrightCut includes a lot of materials data and their cutting parameter in various industries. Users can find the suitable tools, blades and parameters according to the materials. The material Library can be expanded individually by the user. New materials data and the best cutting methods can be defined by users for the future jobs.

Powerful graphics editing functions

iBrightCut has the CAD functions that commonly used in Sign & Graphic industry. With iBrightCut, users can edit the files and even design and create files.

Easy operation

iBrightCut has powerful functions with easy operation. Users can learn all the operations of iBrightCut within 1 hour and can operate it proficiently within 1 day.

Tasks Management

Users can set the cutting task priority according to the order, check the previous task record, and obtain the historical task directly for cutting.

Cutting Path Tracking

Users can track the cutting path, such as estimating the cutting time, updating the progress of task.

User-friendly

User can set the shortcut icon and position according to their own habits.
User can set the position of cutting head when finishing the job.
User can set the pump to be automatically closed when finished the job.

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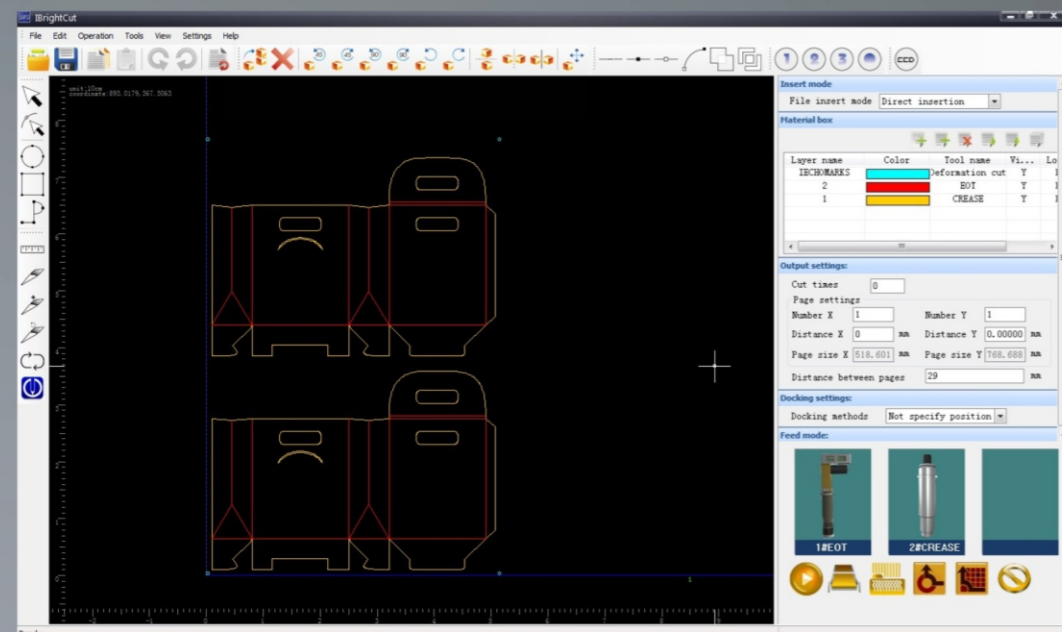
IECHO EOT Electronic Oscillating Knife for cutting soft and medium density materials, available with 1mm stroke.

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 V-CUT The V-Cut Tool is perfect 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° ,15° , 22.5° ,30° ,45° respectively.

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

IECHO CTT The Creasing Tool is used to do the creasing on the corrugated materials, different creasing tools for different materials can make perfect creasing.
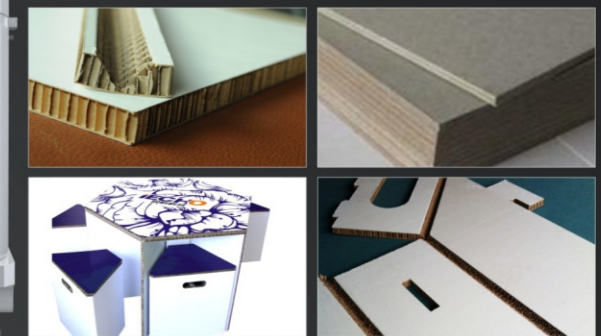
IECHO RZ The router with high rotary speed up to 50000rpm, it delivers solid performance in a wide range of applications on the hard materials and soft form materials.
It can do precise engraving like the Kiss-Cut tool. The special dust-extraction can reduce the waste effectively during the work.

IECHO POT The Pneumatic Oscillating Tool is an air-driven tool with high oscillating frequency. The stoke up to 8mm is suitable for cutting hard, high dense materials, it can cut materials up to 50mm thickness with special blade.