

# Production becomes such easy

**IECHO**

## Six characteristics

- Automatic feeding device used for cutting the roll material.
- Specialized for cutting single layer or few layers. Max cutting thickness is 15mm.
- Professional cutting tools, the max cutting speed is 1.5m/s.
- Professional notch/punch module, the third-generation PPT head.
- IECHO super automatic nesting system.
- Punching function available for avoiding the overcut problem when cutting few layers at one time.

## Multi - function feeder

- Material's edge-alignment
- Adjustable tension
- Spreading roller
- Self-driven feeding
- Material holder for two rolls

## Efficiency



160 pieces  
single layer cutting

450 pieces  
five layer cutting



130 pieces  
single layer cutting

360 pieces  
five layer cutting



120 pieces  
single layer cutting

330 pieces  
five layer cutting

Automatic Cutting Expert for You  
**Intelligent Cutting Solution for  
Apparel Industry**



## ABOUT IECHO

Established in 1994 with its headquarters in Hangzhou, China, Hangzhou IECHO Science & Technology Co., Ltd devotes itself to providing integrated cutting solutions for the non-metal industries and has become one of the world's leading manufacturers of the digital cutting systems. Owing large CNC machining center and assembly center, IECHO's manufacturing factory covers an area of 20000 square meters. With its corporation perspective of making IECHO cutting machines all over the world, IECHO offers cutting solutions and services for the non-metal industries which include textiles, automotive interiors, sign & graphics, packaging and composites, makes the customers' manufacturing mode more intelligent, thus improving production efficiency and material utilization.

With more than twenty year's perseverance in development and innovation, IECHO has become a company with great strength and a strong team full of talents for strategy, marketing, research, development, operation and service with high commitment to job, fresh ideas, pragmatism and innovation. IECHO provides customized service for different cutting requirements. Under the continuous exploration and practice by its R&D center which integrates software, Internet, electrical control, mechanism and artificial intelligence, IECHO now has owned self-developed products include high speed digital cutting system (BK series), large format cutting system(TK3S series), automatic leather cutting system(LCPS series) and automatic multi-layer cutting system(GLS series), which has won the high reputation and recognition from the market. Those products have been widely applied at home and abroad, which in more than 80 countries among Southeast Asia, Europe, Africa and America.

With the rapid development of science and technology, China is marching towards the Industry 4.0, IECHO has been and will always be at the forefront of automatic cutting technology, providing the best automatic production solutions for the global non-metal materials industry.



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BK2-2516 specialized for cutting textile materials

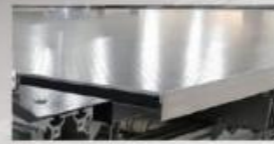
## IECHO apparel industry Digital cutting solutions

BK2 high speed digital cutting system provides the best solution for sample production and small scale production for textiles and apparel industry. BK2 can be equipped with high speed driven rotary tool, electric oscillating tool, pneumatic oscillating tool and the third-generation punching head (PPT head). No matter for cutting the chiffon, silk, wool, or denim, IECHO can provide the most suitable cutting tools and the best solutions for different types of production for menswear, womenswear, Children's clothing, fur clothing, lingerie and Sportswear.



IECHO TK3S intelligent apparel cutting system

# Nine advantages of choosing IECHO



**1 Aeronautical honeycomb aluminum table**  
Using the honeycomb structure principle which has higher flatness, better adsorption effect, durable, solid, anti-corrosion, sound absorption and heat insulation.



**2 Stable frame structure**  
The new aeronautical aluminum material has high strength, corrosion resistance and strong toughness, which makes the equipment more stable and easier to disassemble and install.



**3 Gear**  
The system provides excellent dynamic repetition precision under large working load and provides relative speed, durability and power needed to penetrate dense and thick materials.



**4 Safety device**  
The safety device can protect the operator during the high-speed movement of machine, and the automatic infrared sensor can effectively avoid the loss of the cutting material.



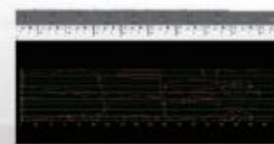
**5 Multiple head configuration**  
The standard cutting head and various punching and knife tools can be combined freely according to different cutting requirements to meet new production and processing requirements.



**6 Dual-beam cutting system**  
With a dual-beam cutting system, the efficiency of the production can be doubled.



**7 X-axis double motors**  
Synchronous double-motor drive is adopted to make the transmission more stable and accurate.



**8 IECHO motion control system**  
CUTTERSERVER cutting system center makes the cutting process more fluent and the cutting arc better.



**9 Frequency conversion system**  
With advanced frequency conversion system, energy can be saved 30% more than other products and adsorption is greatly improved.

# IECHO apparel industry Digital cutting solutions

IECHO intelligent apparel cutting system is mainly for customized suits, shirts and other apparel products to create a series of intelligent cutting equipment. With its precise and efficient performance, IECHO realizes the matching for stripe, plaid, pattern, and cutting net collar, and lining, and secondary fine cutting. The user-friendly operating software combined with the stable hardware system, is available to create an excellent intelligent cutting platform for the garment industry.



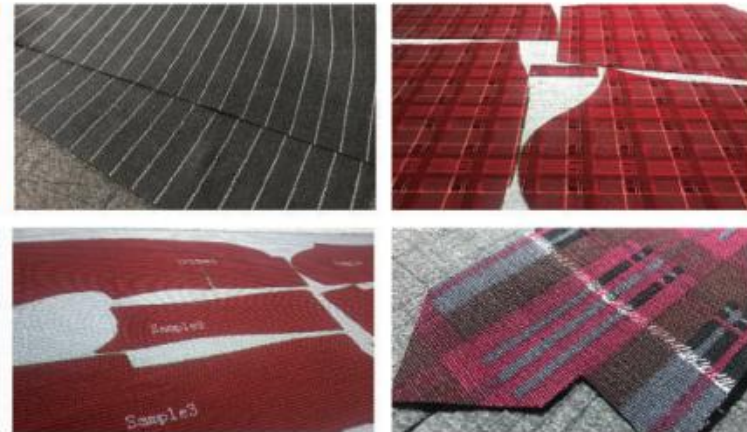
Make manufacturing  
**“ more efficient ”**

**IECHO intelligent cutting solutions for apparel industry**

**IECHO vs Manual production**

Efficiency increased by **3 times**

- Multi-type Notch Tool
- Punching Tool
- Avoid over cut in small amount of multi-layer cutting



**Electronic patterns management**  
 Almost none storage space required; Better Security; Easy management; Convenient retrieval; Customizable database; Customer can retrieve the data of the needed version anytime anywhere.



**Powerful data interpretation module**  
 Readable data format : DXF, AAM, GGT, CUT, ISO, TMP, PLT etc.



**Automatic nesting**  
 Automatic intelligent nesting system to improve material utilization.



**Output task management**  
 Multi-task output management system optimizes the cutting order according to priority.



**Cutting process**  
 Double working tables enable cutting and spreading simultaneously.



**Projector for instruction of collecting**  
 When shift to collecting model after cutting, Projector can project sample marking information on the table, making it convenient for patterns marking and poking up.

**IECHO apparel industry cutting solution workflow**

1	Suit plaid & stripe matching solution	Traditional Cutting	IECHO plaid & stripe matching cutting
		2 persons/1 hour complete 3 sets of suits	2 persons/1 hour complete 6-10 sets of suits
Efficiency increased by 200%	TK3S-6010	1 person complete	25-40 sets/8 hours
	TK3S-12010	2 persons complete	50-80 sets/8 hours
2	Shirt plaid & stripe matching solution	Traditional Cutting	IECHO plaid & stripe matching cutting
		2 persons/1 hour complete 4 sets of shirts	2 persons/1 hour complete 10-20 sets of shirts
Efficiency increased by 200%	TK3S-6016	1 person complete	30-50 sets/8 hours
	TK3S-12016	2 persons complete	80-160 sets/8 hours

## Technical Parameters

Machine model	TK3S-6010	TK3S-6016	TK3S-12010	TK3S-12016
Effective cutting area	6000mm x 1000mm	6000mm x 1600mm	12000mm x 1000mm	12000mm x 1600mm
Space requirement	7000mm x 2300mm	7000mm x 2900mm	13000mm x 2300mm	13000mm x 2900mm
Gantry number	Gantry number option(single, dual)	Gantry number option(single, dual)	Two gantries	Two gantries
Cutting speed	200-1500mm/s	200-1500mm/s	200-1500mm/s	200-1500mm/s
Max. cutting thickness	50mm	50mm	50mm	50mm