Benefit analysis of intelligent digital system upgrade project.

Shenzhen Bok Times Technology Development Co., Ltd.

The goal of the system solution.

Establish digital standards

stablish better standards through the basic pattern library.

Achieve accurate and rapid pattern output.

Realize accurate and rapid pattern and style modification through a parametric system.

Achieve sustainable development of the team.

recipitate technical data and realize the sustainability of the team.

Realize flexible production.

Adapt to the production of rapidly changing products.

Adapt to the needs of new business.

Adapt to new business through flexible and rapid response.

Realize the transformation and upgrading of enterprises.

Intelligent research and development, intelligent manufacturing, intelligent business.

Business types adapted by the system solution.

01 Quick response for small orders

Mainly focus on fashionable clothing. New products are test-marketed in small batches. According to market feedback, orders can be quickly added to effectively reduce the risk of product backlog.

02 Pre-sale mode

At the beginning, the new design is not produced. It is pre-sold through the Internet and other channels. According to the sales orders, it will be produced and delivered in a relatively short time.

03 Group customization

Clothing customization for enterprises and institutions. Design and produce unified clothing according to the attributes of enterprises to achieve the uniformity of the team's clothing image.

04 Customized measurement

Customization in a made-to-measure way is generally for more formal professional clothing or formal wear, pursuing the fit of clothing.

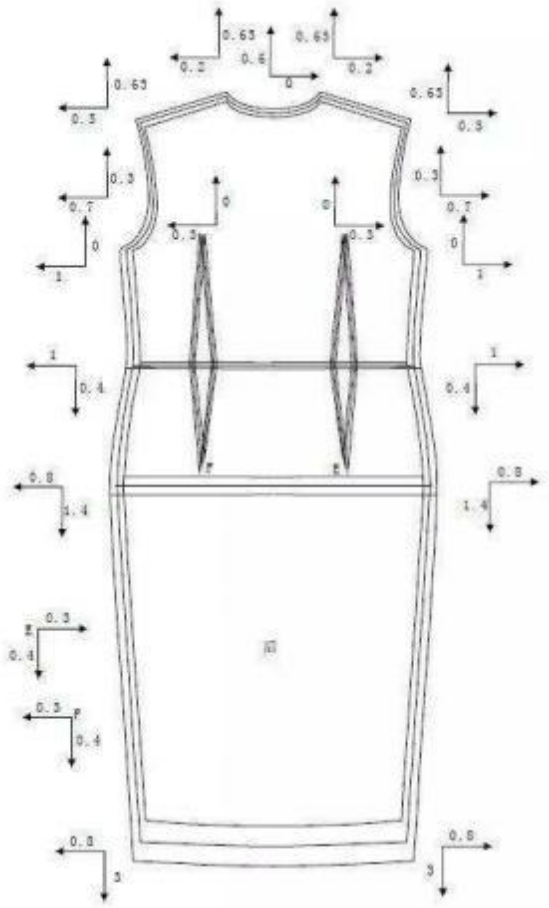
05 light customization

Customization in a made-to-measure is generally for more formal professional clothing or formal wear, pursuing the fit of clothing.

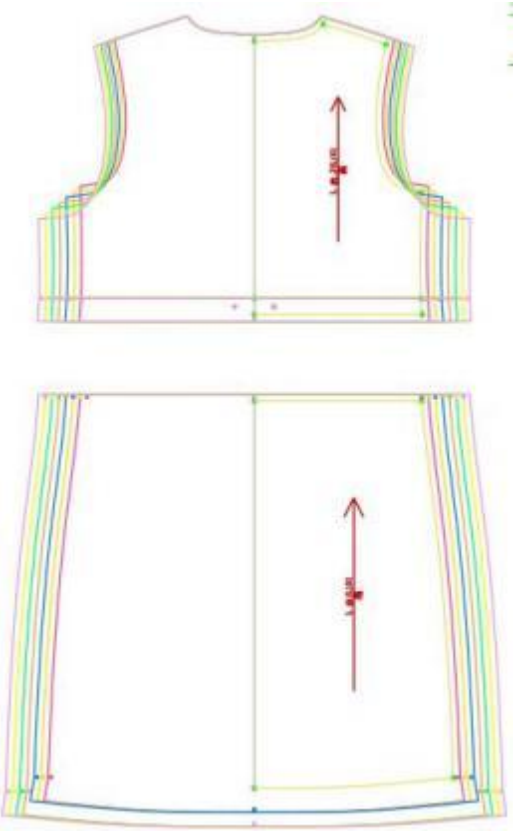
06 Personalized customization

Provide professional fitting services and design services to provide consumers with unique customized products. Those with high standards are also called haute couture.

The difference between intelligent patterns and ordinary patterns.



Ordinary pattern	VS	Intelligent pattern.
The point and the line are in an isolated relationship		Graphical associations form a whole.
grading by point is complex and cumbersome.		Automatic grading according to the size chart is simpler.
Modifying point by point is time-consuming and laborious.		A small change can have a huge impact. making modifications is easier.
It is difficult to solve the special body pattern.		Easily handle all kinds of special body problems.
There is no data memory for pattern.		The parameters of points and lines can be called up and modified at any time.
Not suitable for customized needs.		Meet the customization trend.
Dense sizing has limitations.		One person, one pattern is more accurate.
The establishment of a pattern library is a large project.		It is easier to establish a pattern library.



Intelligent patterns bring more advantages to enterprises.

Traditional pattern (based on point grading).		Traditional pattern (based on point grading).
The traditional pattern-making based on styles has a large amount of repetitive work, cumbersome style modification and low efficiency.	Design and modification.	Establish a basic pattern library for quick combination. With linkage, paper patterns can be quickly revised, resulting in higher overall efficiency.
Point-by-point grading is inefficient and prone to errors. Independent nesting without linkage.	Grading and nesting.	Automatically grade according to the size chart for higher accuracy. Integrated nesting , linkage with paper patterns.
Manual work has low efficiency and high cost.	Efficiency and cost	Manual work has high efficiency and low cost.
It is not convenient to integrate and connect with other systems and cannot achieve automatic processing.	Integration and docking.	It can be integrated and connected with other systems to achieve efficient automatic processing.

Bok intelligent clothing cloud CAD and Bok Cloud help enterprises improve research and development efficiency.

Bok intelligent cloud CAD system combines a powerful intelligent system with cloud materials. Users can directly call various material libraries such as paper patterns and components on the cloud, quickly combine, modify, and generate the required patterns, saving time and effort. A slight move in one part may affect the situation as a whole. The powerful linked modification ensures that all related parts are automatically modified to prevent errors. Automatically grade all specifications according to the size chart, reducing the grading time to zero, faster and more accurate. Highly integrated, fully compatible, with advanced performance, and a culmination of the latest products.

Bok Cloud is an intelligent research and development and supply chain platform for the clothing industry. The platform provides shared version CAD systems and various pattern and component materials to a large number of pattern designers, helping users reduce repetitive work and improve design efficiency. Excellent pattern makers can also share their works with users in need for a fee through Bok Cloud to achieve a win-win situation for pattern makers and enterprises. The platform also provides clothing enterprises with various services such as fabrics, orders, and talents. Centered on intelligent patterns, Boke Cloud gathers high-quality industry resources, opens up upstream and downstream data, optimizes industry resources, improves industrial efficiency, and promotes the transformation and upgrading of the clothing industry.

Combine with the 3D system to improve research and development efficiency.

Intelligent patterns combined with the 3D virtual fitting system allow you to start from designing the silhouette of clothing all the way to size range, graphics, fabrics, accessories, color matching, styles, and realistic 3D rendering. Process designers and pattern makers can then proceed to the next stages such as real motion fit adjustment, pattern modification, grading, process packages, and so on.

◆Advanced prototypes before providing samples and fabrics.

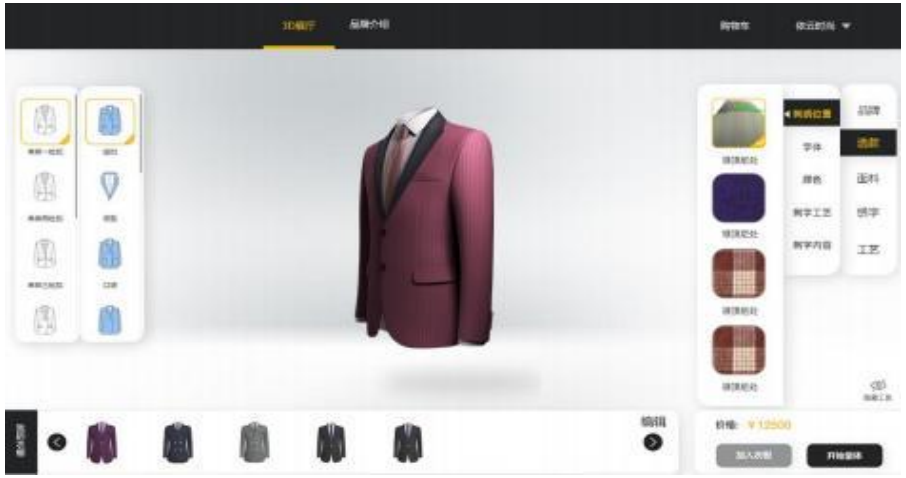
◆Accurate and realistic 3D clothing that is exactly the same as the produced product.

◆The most powerful tool set for realizing the most complex designs.

From virtual fitting to virtual retailing.

Realize production after sales through virtual 3D, and fundamentally reject inventory risks.

The Bok MTM and custom CAD system help enterprises achieve customized production.



The Bok MTM clothing customization system is developed for clothing customization enterprises. It helps clothing enterprises achieve data interoperability from retail terminals to production factories, allowing consumers to participate in customization design, realize independent selection of styles, components and fabrics. The realistic 3D effect presents style matching in real time, bringing a better user experience. The system background has powerful management functions, which can realize order management, product management, fabric management, user data management, etc. It is automatically docked with the Bok custom CAD system and intelligent data center to complete the automatic conversion from human body data to pattern data and realize the transformation of large-scale clothing customization.

Bok intelligent customized clothing cloud CAD system, based on powerful parametric design and through intelligent pattern library modeling, can automatically modify patterns by importing measurement size tables. Combined with Bok MTM system and intelligent data center, it can automatically complete the combination and modification of corresponding patterns according to the order style and measurement data. It can effectively improve the processing speed of customized clothing patterns, especially greatly improve the accuracy of special-sized clothing patterns, thus effectively improving the fit of patterns and customer satisfaction. It is an essential tool for clothing enterprises to realize customized transformation.

Use standardized means to customize personalized products.

Style classification → Component splitting → Style combination

Connect factories and stores through the network and open up front-end and back-end data.

Select styles and place orders.

Measurement input.

Back-end review.

Data maintenance

Intelligent pattern modification.

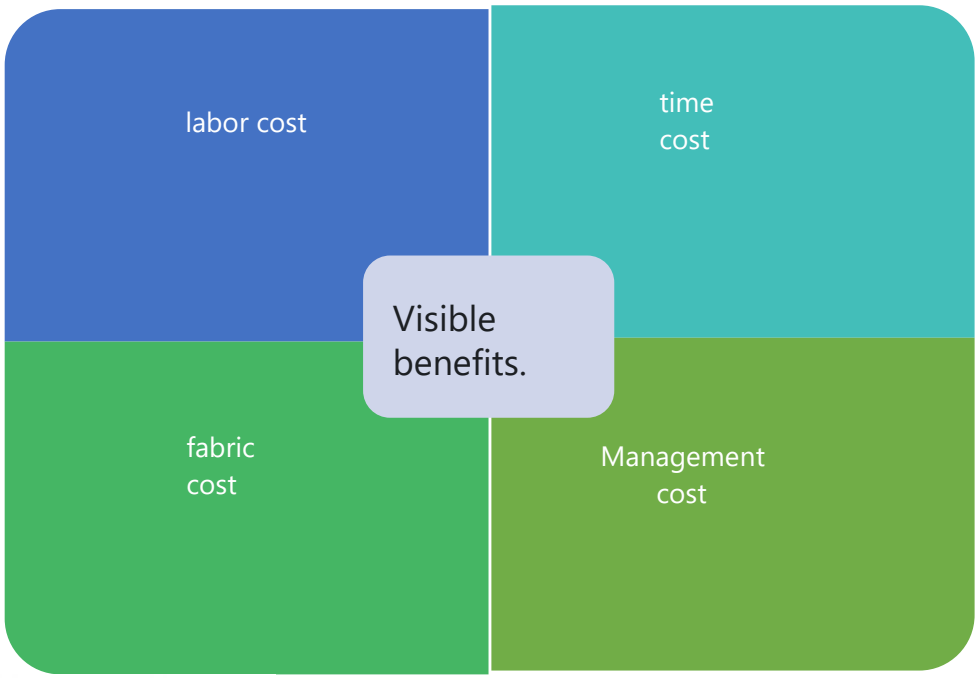
Pattern library management.

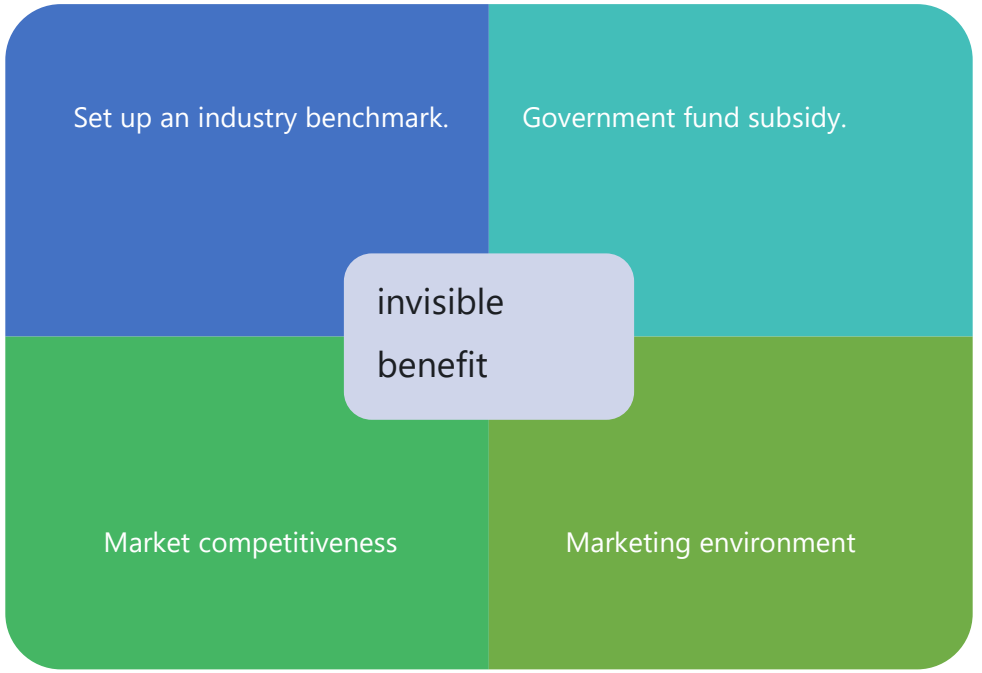
The BOK intelligent data center and order receiving platform achieve efficient and rapid response.

Bok Intelligent Data Center is used for the management of clothing intelligent patterns and the automatic processing of orders. It has functions such as a pattern library, a component library, permission settings, automatic analysis, and a task center. It helps enterprises realize the full-process order automation processing from product design and research and development, system ordering, to automatically generating patterns and automatic nesting. It quickly converts order files into nesting and cutting files that can be produced, helping enterprises achieve pattern management and intelligent production.

The Bok clothing order receiving platform helps enterprises achieve C2B transformation. It supports both batch orders and personalized individual orders. It supports both standard size ordering and body measurement ordering and size modification ordering. Users can participate in product design through the 3D virtual network system and see in real time the clothing effects produced by choosing different styles, components and fabrics. They can even independently set personalized designs such as embroidered characters and patterns. The system background supports functions such as order management, financial management, product management and customer management, and can be integrated with enterprise ERP, financial system, inventory system, production system and logistics system.

Comprehensive benefits brought by digital systems.





Comprehensive improvement of business and production.

Shorten the development cycle.

Reduce development costs.

Realize transformation and upgrading.

System integration.

Improve overall efficiency.

Improve enterprise competitiveness.

Comprehensive benefit analysis after project upgrade and transformation.

Save more than **10%** of material loss.

The efficiency of sewing is increased by more than **20%**.

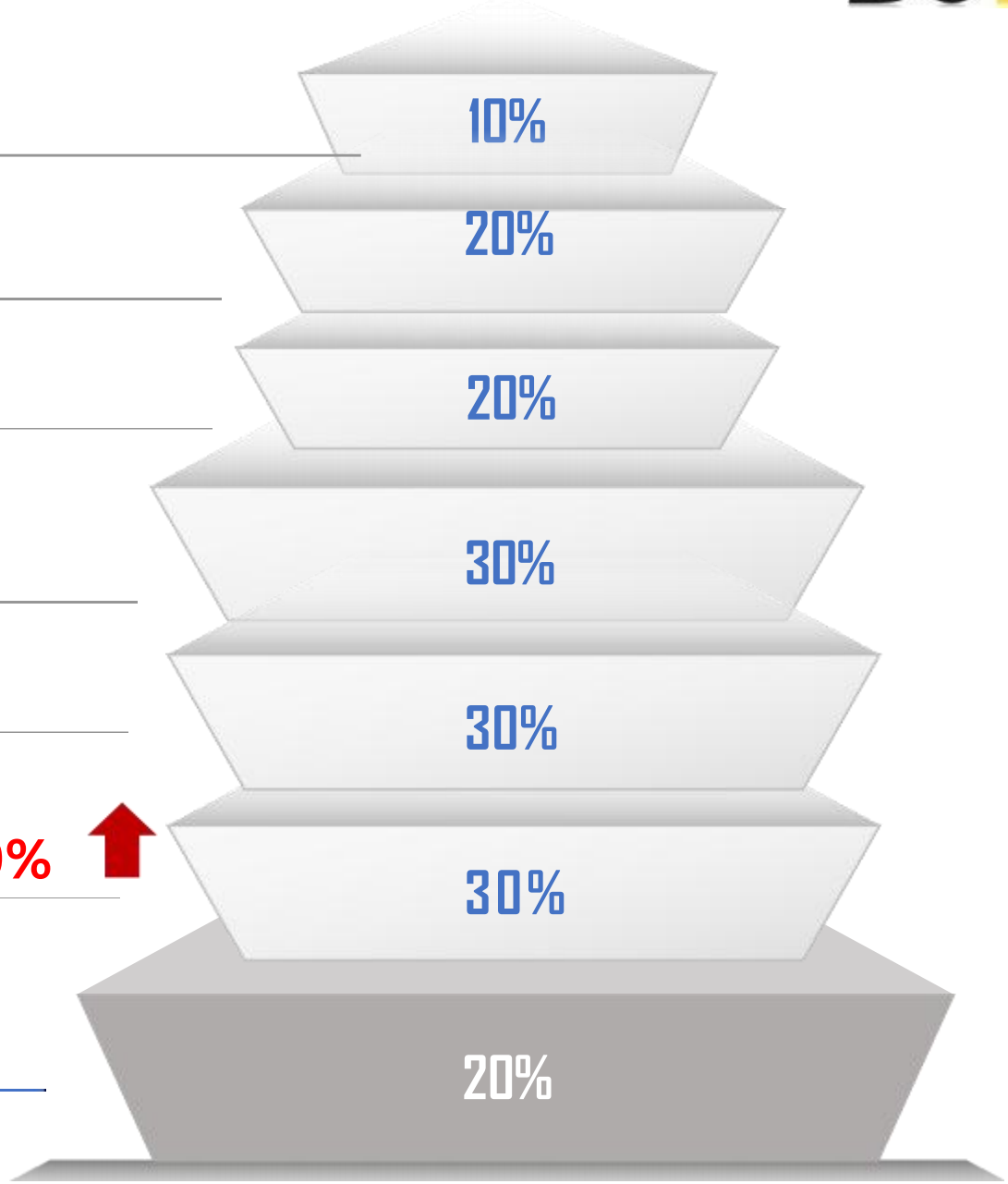
The production efficiency is increased by more than **20%**.

The product development cycle is shortened by more than **30%**.

Reduce management personnel by more than **30%**.

The qualified rate of finished products is improved by more than **30%**

Reduce the overall operating cost by more than **20%**.



Data analysis of implementation benefits of each system - Bok Custom Clothing CAD System.

serial number	System name	product category	working time	Publication quantity	efficiency improvement	Description
01	Bok custom clothing CAD system software	Suit jacket category	8h/day	60-80	Above500%	Ningxia Huichuan, Shandong Luthai, Chongqing Duanji suits, Joeone, etc. Note: The publication quantity is the number of pattern adjustments per person per day on the basis of the existing intelligent pattern library.
		Shirt jacket category		230-260	Above1000%	
		Pants category		230-260		

Data analysis of implementation benefits of each system - Bok Super Nesting System

serial number	System Name	Product category	working hours	Fabric utilization rate (comparison of manual nesting).	Improvement in nesting efficiency (compared with manual nesting).	Note
02	Bok Super Nesting System Software (SS Dual Core)	All categories.	8h/day	Increase by 0.3%-0.6%	More than 800%.	Fabric utilization rate compared with manual nesting. According to different levels of manual nesting workers, the data will change to a certain extent.
03	Bok Super Nesting System Software (German Quad-Core, AI Super Nesting).	All categories.		Increase by0.5%-1.5%		

Data analysis of implementation benefits of each system—Bok intelligent body measurement system.

Serial number	System name	Improve the efficiency of body measurement.	Reduce the error rate of body measurement data.	Save body measurement personnel.	Reference customer.
04	Bok intelligent body	150%	3%	50%	Wenzhou George White, Shandong Nanshan Clothing, Sichuan Qida Group.

Data analysis of implementation benefits of each system - Bok group customized cutting plan system.

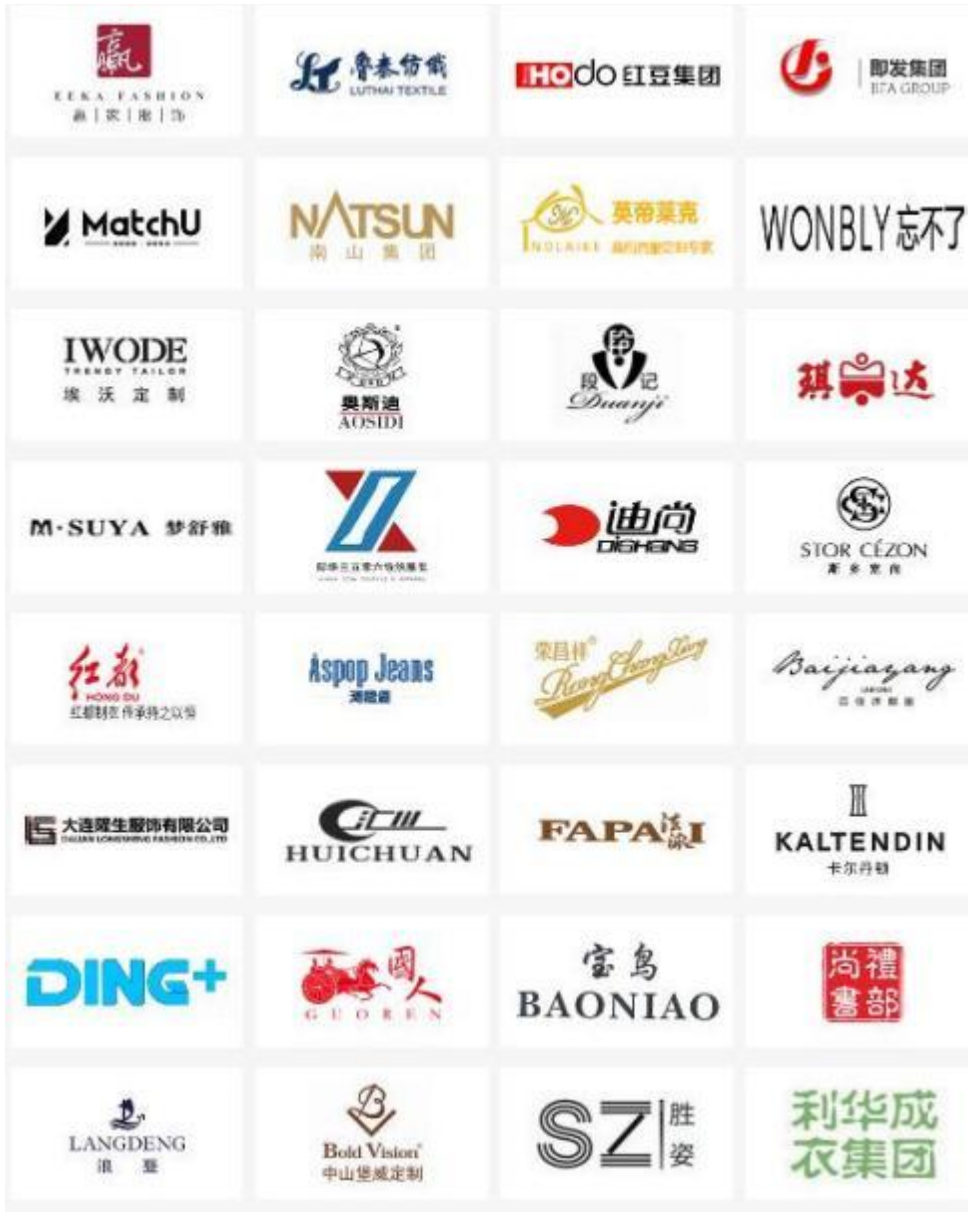
Serial number	System name	Grading	Improvement in grading efficiency (compared with manual grading)	Improvement in bed allocation efficiency (compared with manual bed	Automatic nesting (compared with manual nesting).
05	Bok group customized cutting plan system.	The system automatically grades.	More than 50 times.	More than 30 times.	More than 8 times.

Data analysis of the implementation benefits of each system—Bok customized CAD + order automatic processing system.

Project description	Before system installation (or using other software)	Use the Bok system.	Cost saving description	Remarks	Customer case.
labor cost	Order entry clerk, size digital corrector, marking staff, pattern maker, grading worker, nesting worker, material calculation worker, cutting bed allocation planning staff.	If there were originally 50 workers in total, only 10 workers are needed after using the Bok system.	Calculated based on an average monthly salary of 5000 yuan per person, the labor cost savings for one year are: 5000 X (50- 10) X 12 = 2.4 million yuan per year.	Boke customized clothing. The CAD system combined with the order automatic processing system can automatically complete functions such as order import and export, automatic grading, automatic size selection, linked modification of patterns, automatic	In Shandong Lutai, a pattern maker could handle 30 paper pattern orders in one day. After using the Bok semi-
Work efficiency Time cost	For each task, the eight staff members basically need about three hours of workload.	The work amount of three hours per person can be shortened to be completed by one or two people in three minutes.	The work efficiency can be increased by about 60 times.		

Fabric cost	For example, if the fabric is calculated at 100 yuan per meter and 10,000 pieces of clothing are produced every month.	On average, for each piece of clothing, the minimum fabric cost savings per year is to save at least 1 cm of fabric.	The fabric cost savings are: 100 * 1 * 10,000 * 12 = 1.2 million yuan.	generation of patterns, automatic generation of markers, super nesting, automatic material calculation, and automatic calculation of cutting machine sequence.	automated system, 300 paper pattern orders can be processed within one minute.

More typical customer cases.



Dozens of clothing colleges and universities use the Bok system to cultivate industrial talents.

Thank you for watching!
Looking forward to cooperation.

Bok Innovation, Win the Future with Data.