

# JACK HEAVY DUTY MACHINE CATALOGUE

## HOT SELLING SERIES



Jack Wechat



Jack Facebook

400-8876-858  
[www.chinajack.com](http://www.chinajack.com)

2022.07

**JACK TECHNOLOGY CO.,LTD**

ADD:No.1008, Donghai Avenue East, Jiao jiang District, Taizhou City,  
Zhejiang Province, China  
TEL:0086-576-88177782

E-mail: [sales@chinajack.com](mailto:sales@chinajack.com)  
[www.chinajack.com](http://www.chinajack.com)



## About Jack

Jack, a company listed on the A-share stock market, has led the industry in sales for 12 consecutive years, with more than 2 million factories in more than 150 countries around the world to realize the business success!

Products have benefited more than 150 countries and regions around the world, serving shoes, luggage, furniture, leather, automobiles, aviation, clothing and other fields. Up to now, Jack has large series of heavy-duty machines such as top and bottom feeding lockstitch, post-bed roller machines, pattern machines, cutting machines, line drawing machines, etc., which help shoes and bag enterprises, and Jack has always been continuing in developing new products to meet the diverse needs of the market.

Jack, the Industrial Internet Platform of the Intelligent Sewing Industry was listed on the list of "National Cloud Model", and was awarded the "Provincial Future Factory". And Jack has been bearing no efforts in making the Intelligent manufacturing system!

Jack, leading the industry in patent holdings for 9 consecutive years (2025 valid patents), has a strong R&D team of 1,000 people in the industry, Jack has 14 R&D centers in Germany, Italy China, Beijing, Shanghai to promote and lead the progress and development of the industry!

## Quick service 100%

Jack takes brand building featuring "Quick service 100%" as the highest strategy, and builds a professional quick service management platform and service product line. Establish a fast service system from four aspects: technical service, parts management, information management and service management.

Jack has established a high-quality service team with more than 8,000 people around the world in cooperation with the big Jack dealers. It has more than 2,000 perfect service points in China and more than 80 company service engineers.

Jack has won the title of the only "National Top Ten Service Units" in the industry for five consecutive years, and is the main drafter of the service code of conduct for the sewing machine industry.



Successful partners

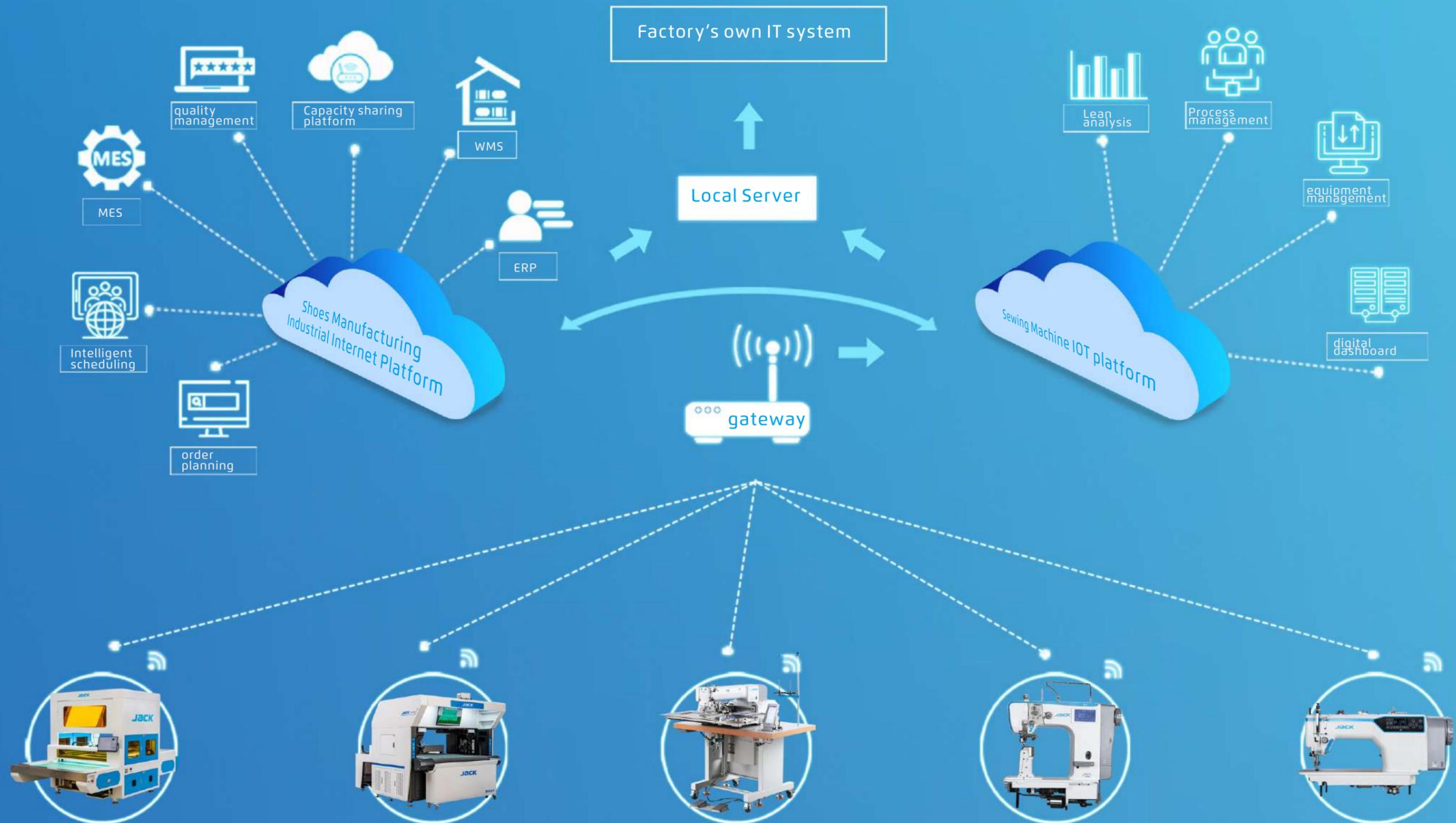
Footwear					
		BELLE			
Furniture, luggage, outdoor products					
					



# Total solution: Let shoes industry reach more possibilities.

Helping shoe industry enterprises in intelligent manufacturing and digital management

- consultant plan
- equipment supply
- professional talent
- project implementation
- hardware & software
- Operational guidance



## Shoes Application

## Heavy duty series catalogue



S7 series. Accurate stitch length intelligent roller machine	02
S5-91/S5-92 Super brisk computerized roller machine	03
S5/S7-81CX-T Cylinder post-bed computerized/intelligent roller machine	03
JK-6671C/6672C Super high speed computerized roller machine	04
JK-T3020 Light & heavy computerized pattern machine	04
JK-T3520MA Computerized pattern machine without thread loose in initial sewing	05
JK-H1610P Precise intelligent cutting machine	05
JK-H1680 Precise intelligent line drawing machine	06
JK-H1210YS Super high speed intelligent line drawing machine	06

## S7series Accurate stitch length intelligent roller machine



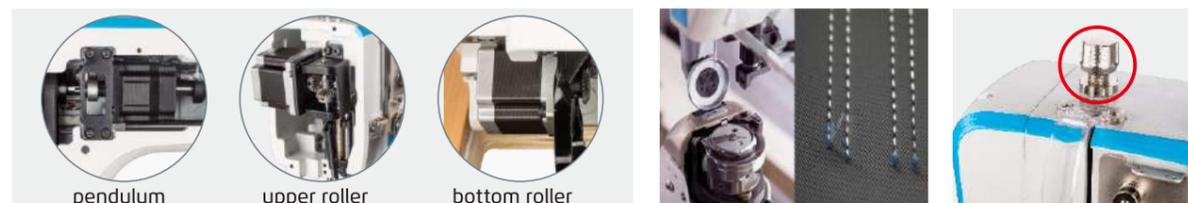
Touch panel



Key panel

### Suitable for

all kinds of high-end leather shoes, sports shoes, bags, gloves, leather, shoes and clothing accessories and other sewing products



pendulum

upper roller

bottom roller

stepping motor drive, accurate stitch length, variation feeding, avoid wrinkles

short remaining thread 3mm

easy to adjust roller pressure



different stitch length, free switching



new reverse wrench, operate easily



noiseless reverse stitch

model	configure	max speed (S.p.m)	needle	presser foot height (mm)	max stitch length (mm)	needle bar stroke	auto thread trimming	auto reverse stitch	auto presser foot lifter	short remaining thread	volume (mm)	weight (kg)
S7-91-T	single needle touch panel	3000	DP×5 9-22#	10	5	41	√	√	√		882×375×794	63/72
S7-92-T	double needle touch panel	2000	DP×5 9-22#	10	5	41	√	√	√		882×375×794	63/72
S7-91CX-T	single needle, touch panel short remaining thread	3000	DP×5 9-22#	10	5	41	√	√	√	√	882×375×794	63/72
S7 <sup>P</sup> -91CX	single needle, key panel short remaining thread	3000	DP×5 9-22#	10	5	41	√	√	√	√	882×375×794	63/72
S7 <sup>P</sup> -91	single needle, key panel	3000	DP×5 9-22#	10	5	41	√	√	√		882×375×794	63/72
S7 <sup>P</sup> -92	double needle, key panel	2000	DP×5 9-22#	10	5	41	√	√	√		882×375×794	63/72

note T:touch panel S:short remaining thread C:chinese hook +:IOT

## S5-91/S5-92 Super brisk computerized roller machine



3mm: short remaining thread of 3mm (optional)



High Puncture force, suitable for heavy duty



Voice Guide, easy to learn and use



intelligent USB port, QR code

Suitable for

all kinds of high-end leather shoes, sports shoes, bags, gloves, leather, shoes and clolightg accessories and other sewing products

model	max speed (S.p.m)	needle	presser foot height(mm)	max stitch length(mm)	needle bar stroke(mm)	auto thread trimming	auto reverse stitch	auto presser foot lifter	short remaining thread	volume (mm)	weight (kg)
S5-91	3000	DP×5 9-22#	10	6.5	41	√	√	√		812×375×724	67/76
S5-91CX	3000	DP×5 9-22#	10	6.5	41	√	√	√	√	812×375×724	67/76
S5-92	2000	DP×5 9-22#	10	5	41	√	√	√		812×375×724	67/76
S5-91-H	3000	DP×5 9-22#	10	6.5	41	√	√	√		812×375×724	67/76
S5-92-H	2000	DP×5 9-22#	10	5	41	√	√	√		812×375×724	67/76

Note: H is for heavy duty

## S5/S7-81CX-T Cylinder post-bed computerized/intelligent roller machine



S5-81CX

S7-81CX-T

Suitable for

children's shoes, baby shoes, riding boots, gloves, handbags and other sewn products



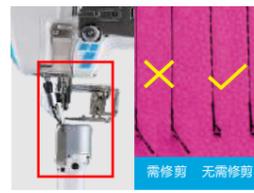
cylinder post-bed, more adaptable



Removable needle plate, easy adjust



auto thread trimming, high efficiency



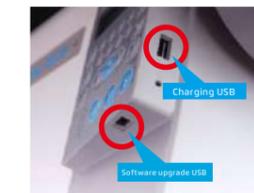
short remaining thread of 3mm

model	max speed (S.p.m)	needle	presser foot height (mm)	max stitch length (mm)	needle bar stroke	auto thread trimming	auto reverse stitch	auto presser foot lifter	short remaining thread	volume (mm)	weight (kg)
S5-81CX	3000	DP×5 9-21#	10	6.5	41	√	√	√	√	812×375×724	67/76
S7-81CX-T	2500	DP×5 9-21#	10	5	41	√	√	√	√	882×375×794	63/72

## JK-6671C/6672C Super high speed computerized roller machine



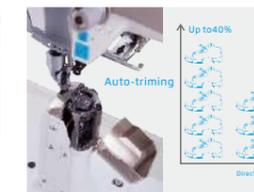
One key factory rest



USB port



high puncture force



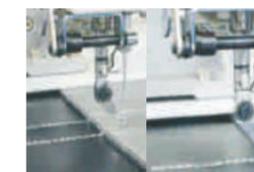
Direct drive design, high efficiency

Suitable for

all kinds of high-end leather shoes, sports shoes, bags, gloves, leather, shoes and clolightg accessories and other sewing products

model	max speed (S.p.m)	needle	presser foot height (mm)	max stitch length (mm)	needle bar stroke(mm)	auto thread trimming	auto reverse stitch	auto presser foot lifter	volume (mm)	weight (kg)
JK-6671C	3000	DP×5 9-22#	10	6.5	41	√	√	√	812×375×724	67/76
JK-6672C	2000	DP×5 9-22#	10	5	41	√	√	√	812×375×724	67/76

## JK-T3020 Light & heavy computerized pattern machine



intelligent presser foot, perfect sewing performance



thread breakage detection, high quality



quick pattern change, easy and high efficiency



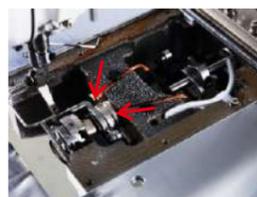
special control box for shoes industry (touch / key panel optional)

suitable for

automotive supplies, luggage, footwear, non-woven bags, etc.

model	Sewing area size (mm)	needle	needle number	thread number	stitch length (mm)	presser foot height (mm)	max speed (S.p.m)	volume (mm)	weight (kg)
JK-T2210-D	220×100	DP×17 19#	1	2	0.1-12.7	22	2700	1220×840×1320	136/186
JK-T2210-K-J	220×100	DP×17 19#	1	2	0.1-12.7	22	2700	1220×840×1320	136/186
JK-T3020-D	300×200	DP×17 19#	1	2	0.1-12.7	22	2700	1220×1220×1320	222/288
JK-T3020-K-J	300×200	DP×17 19#	1	2	0.1-12.7	22	2700	1220×1220×1320	222/288

## JK-T3520MA Computerized pattern machine without thread loose in initial sewing



Avoid thread loose in initial sewing, stable performance



Large pitch built-in dual axis



intelligent presser foot, perfect sewing performance



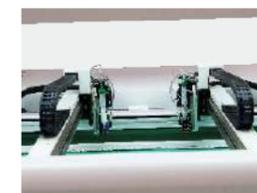
thread breakage detection, high quality

suitable for

automotive supplies, luggage, footwear, non-woven bags, etc.

model	bobbin thread type	sewing range (mm)	needle	needle number	thread number	stitch length (mm)	max middle presser foot height(mm)	max pressure frame height (mm)	max speed (S.p.m)	volume (mm)	weight (kg)
JK-T3520MA-D	hook	350x200	DP×17 19#	1	2	0.1-12.7	17	26	2500	1200x1220x1320	180/200
JK-T3520MA-N-D	hook	350x200	DP×17 19#	1	2	0.1-12.7	17	26	2500	1220x1220x1320	180/200

## JK-H1680 Precise intelligent line drawing machine



intelligent double head, avoid collision



super high speed, lining in high efficiency



quick recognition, lining precisely



Detachable machine no need to dismantle the wall

suitable for

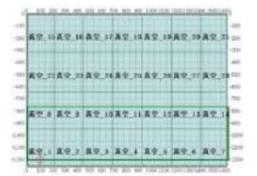
lining of shoes material, garment material, leather, PU and fabric.

model	working area (mm)	max size (mm)	drawing speed (mm/s)	drawing accuracy (mm/s)	weight (kg)	power (kw)	air pressure (mpa)	power rated voltage (V)	frequency (hz)	drawing way	consumable parts
JK-H1680	1100×850	3700x2020x2300	2000	±0.5	940	4.5	0.6-0.8	220	50-60	Inkjet	ink Receipt package

## JK-T1610P Precise intelligent cutting machine



intelligent double knife, high efficiency



Vacuum adsorption, stable cutting



original system, easy learn and use



single head cutting preferred model of the board room

suitable for

lining of shoes material, garment material, leather, PU and fabric.

model	working area (mm)	machine size (mm)	cutting speed	cutting precision (mm)	weight (kg)	power (kw)	fix way	suitable material	knife head type	cutting head quantity
JK-T1610P	1600x1000	2516x3116*2410	350	±0.01	3500	9.5	vacuum adsorption	roll	pneumatic	dual head
JK-T1610E	1600x1000	2516x3116*2410	350	±0.01	3500	9.5	vacuum adsorption	roll/piece	electronic	dual head
JK-T1613PS-C	1600x1300	2860x2405*2560	350	±0.01	1900	8.5	vacuum adsorption	roll	pneumatic	single head
JK-T1613PS	1600x1300	2860x2405*2560	350	±0.01	1900	8.5	vacuum adsorption	piece	pneumatic	single head

## JK-H1210YS Super high speed intelligent line drawing machine



All-round shadowless lighting system



High-precision industrial camera vision positioning system



Depending on the size of the material print 1500-6000 sheets per hour



Easy-to-understand operating software and operating interface

suitable for

lining of shoes material, garment material, leather, PU and fabric.

model	working area (mm)	max size (mm)	drawing accuracy (mm/s)	weight (kg)	power (kw)	air pressure (mpa)	power rated voltage (V)	drawing way	consumable parts
JK-H1210YS	1150×850	4160x1890x2260	±0.5	600	1.2	0.4-0.8	220	print	ink cartridge ink

## Bag application

## Heavy duty series catalogue



H6L	Large space intelligent top and bottom feeding machine	08
H6	Accurate stitch length top and bottom feeding machine	09
H5	Super high speed computerized top and bottom feeding machine	10
H5K	Edge cutter computerized top and bottom feeding machine	11
JK-2030G	Smooth bone cross computerized top and bottom feeding machine	11
JK-2060G	Compound feeding computerized lockstitch	12
JK-2002G	Big stitch length heavy duty computerized lockstitch	12
JK-T3520MA	Computerized pattern machine without thread loose in initial sewing	13
JK-T10040/6040	Large area computerized pattern machine	14

## H6L Large space intelligent top and bottom feeding machine



suitable for

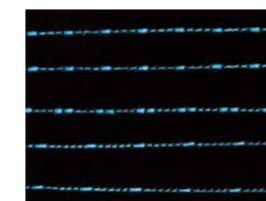
cushions, bags, swivel chairs, sofas and other large sewn products



large space, easy sewing (365\*150mm)



electronic thread release  
stable thread trimming



stepping motor control stitch  
length high accurate reverse  
stitch



accurate stitch length, digital  
adjust



noiseless reverse stitch

model	needle	thread number	stitch length (mm)	presser foot height (mm)	max speed (S. p.m)	auto presser foot lifter	volume (mm)	weight (kg)
H6L-CZ-3	DPX17 20-23#	2	10	7-16	2200	/	815×345×585	47/55
H6L-CZ-4	DPX17 20-23#	2	10	7-16	2200	electronic	815×345×585	50/58

## H6 Accurate stitch length top and bottom feeding machine

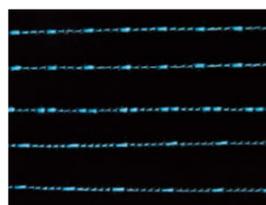


Suitable for

cushions, bags, swivel chairs, sofas and other large sewn products



accurate stitch length, digital adjust



stepping motor control stitch length, high accurate reverse stitch



condense stitch, short remaining thread



noiseless reverse stitch



voice guide, easy to learn

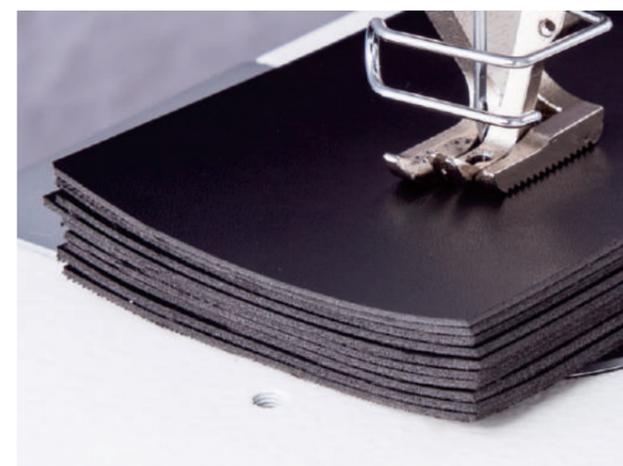
model	use	needle	thread number	stitch length (mm)	presser foot height(mm)	max speed (S.P.m)	auto presser foot lifter	volume (mm)	weight (kg)
H6-CZ-3	normal material	DPX17 20-23#	2	10	7-16	2200	/	725x280x558	41/48.5
H6-CZA-3	light material	DPX17 18#	2	10	7-16	2200	/	725x280x558	41/48.5
H6-CZXB-3	special for hand bag	DPX17 20-23#	2	10	7-16	2200	/	725x280x558	41/48.5
H6-CZ-4	normal material	DPX17 20-23#	2	10	7-16	2200	electronic	725x345x580	43/51
H6-CZP-4	normal material	DPX17 20-23#	2	10	7-16	2200	pneumatic	725x345x580	43/51
H6-CZ-4	normal material, IOT	DPX17 20-23#	2	10	7-16	2200	electronic	725x345x580	43/51

## H5 Super high speed computerized top and bottom feeding machine



Suitable for

cushions, bags, swivel chairs, sofas and other large sewn products



fits heavy duty, high efficiency



sealed oil pan clean environment



without knee component



reverse stitch, high quality



one shaft design

model	use	needle	thread number	stitch length (mm)	presser foot height(mm)	max speed (S.P.m)	auto presser foot lifter	volume (mm)	weight (kg)
H5-CZ-3	normal material	DPX17 20-23#	2	8	7-16	2200	/	725x285x580	40.5/43
H5-CZST-3	glove	DPX5 11-14#	2	8	5-16	1800	/	725x285x580	40.5/43
H5-CZXB-3	bag	DPX17 20-23#	2	8	7-16	2200	/	725x285x580	40.5/43
H5-CZA-3	light material	DPX17 18#	2	8	7-16	2200	/	725x285x580	40.5/43
H5-CZZD-3	special for cushion and swivel chairs	DPX17 20-23#	2	8	7-16	2200	/	725x285x580	40.5/43
H5-CZZD-4	special for cushion and swivel chairs	DPX17 20-23#	2	8	7-16	2200	electronic	725x345x580	43/45.5
H5-CZ-4	normal material	DPX17 20-23#	2	8	7-16	2200	electronic	725x345x580	43/45.5
H5-CZP-4	normal material	DPX17 20-23#	2	8	7-16	2200	pneumatic	725x345x580	43/45.5
H2-CZ	normal material	DPX17 20-23#	2	8	7-16	2200	/	725x285x580	40.5/43
H2-CZ-12	normal material	DPX17 20-23#	2	12	7-16	2200	/	725x285x580	40.5/43

Note: H5 is computerized type with auto trimmer, auto reverse, thread tension, optional auto presser foot lifter(-4), P is for pneumatic auto presser foot lifter. H2 is direct-drive type.

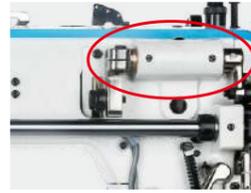
## H5K Edge cutter computerized top and bottom feeding machine



super high ability for heavy duty sewing, cutting orderly



separate knife structure high durability



sealed oil pan clean environment



free setting one key factory reset

**Suitable for**

edge cutting of cushions, bags, swivel chairs, slippers, home textiles, hats and other sewn products

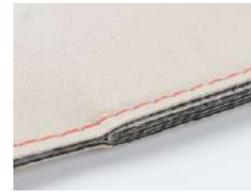
model	needle	thread number	stitch length (mm)	presser foot height (mm)	max speed (S.p.m)	auto presser foot lifter	volume (mm)	weight (kg)
H5K-CZ-3	DPX17 20-23#	2	8	7-16	2000	/	725×280×558	39/46
H5K-CZ-4	DPX17 20-23#	2	8	7-16	2000	electronic	725×345×580	43.5/45.5

Note: standard cutting width is 4.8mm, 3.2mm and 6.4mm is optional

## JK-2030G Smooth bone cross computerized top and bottom feeding



top and bottom feeding



super ability for sewing heavy duty( 8 layers leather)



auto presser foot lifter( optional)



power saving, stable

**Suitable for**

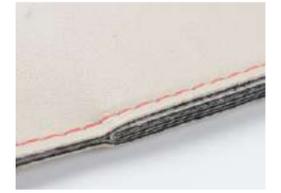
sofa, car seat, luggage, leather, denim, canvas products industry, etc.

model	use	needle	needle number	thread number	stitch length (mm)	Presser foot interaction amount(mm)	presser foot height (mm)	max speed (S.P.m)	auto thread trimming	auto reverse stitch	electronic thread tension	direct drive	auto presser foot lifter	volume (mm)	weight (kg)
JK-2030GHC-3Q	sofa, car seat, bags, shoes	DP×17 20-23#	1	2	1-9	2.5-5.5	8/16	2200	√	√	√	√		785×320×605	43/53
JK-2030GHC-4Q		DP×17 20-23#	1	2	1-9	2.5-5.5	8/16	2200	√	√	√	√	electronic	785×320×605	43/57
JK-2030GHC-4PQ		DP×17 20-23#	1	2	1-9	2.5-5.5	8/16	2200	√	√	√	√	pneumatic	785×320×605	43/57

## JK-2060G Compound feeding computerized lockstitch



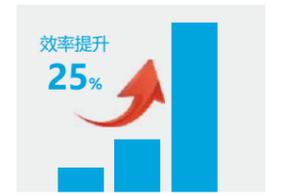
compound feeding



super ability for sewing heavy duty( 8 layers leather)



auto presser foot lifter( optional)



效率提升 25%

high efficiency, effort saving

**Suitable for**

sofa, car seat, luggage, leather, denim, canvas products industry, etc.

model	use	needle	needle number	thread number	stitch length (mm)	Presser foot interaction amount(mm)	presser foot height (mm)	max speed (S.P.m)	auto thread trimming	auto reverse stitch	electronic thread tension	direct drive	auto presser foot lifter	volume (mm)	weight (kg)
JK-2060GHC-3Q	sofa, car seat, bags, shoes	DP×17 20-23#	1	2	1-9	2.5-5.5	8/16	2200	√	√	√	√		785×320×605	43/53
JK-2060GHC-4Q		DP×17 20-23#	1	2	1-9	2.5-5.5	8/16	2200	√	√	√	√	electronic	785×320×605	43/57

## JK-2002G Big stitch length heavy duty computerized lockstitch



full function panel easy to operate



12mm stitch length, suitable for both light and heavy material



super ability for sewing heavy duty,high efficiency



one shaft design

**Suitable for**

tent, automotive supplies/home textiles/cardigans/slippers/non-woven bags/caps and other sewn products

model	use	needle	thread number	stitch length (mm)	presser foot height(mm)	max speed (S.P.m)	auto thread trimming	auto reverse stitch	electronic thread tension	volume (mm)	weight (kg)
JK-2002GHC-3Z-12	woolen, sweaters, slippers nonwoven bags,hats	DP×17 22#	2	12	7-16	2800	√	√	√	725x285x580	39/45
JK-2002BC-Z-12		DP×17 22#	2	12	7-16	2800				725x285x580	37/43

Note: 1.B direct drive; 2.G computerized; 3.C chinese hook; 4.Z Zowbow control box

## JK-T3520MA Computerized pattern machine without thread loose in initial sewing



suitable for

automotive supplies, luggage, footwear, non-woven bags, etc.



Avoid thread loose in initial sewing stable performance



Large pitch built-in dual axis



intelligent presser foot perfect sewing performance



thread breakage detection high quality

model	bobbin thread type	sewing range (mm)	needle	needle number	thread number	stitch length (mm)	max middle presser foot height(mm)	max pressure frame height (mm)	max speed (S.P.m)	volume (mm)	weight (kg)
JK-T3520MA-D	hook	350x200	DP×17 19#	1	2	0.1-12.7	17	26	2500	1200x1220x1320	180/200
JK-T3520MA-N-D	hook	350x200	DP×17 19#	1	2	0.1-12.7	17	26	2500	1220x1220x1320	180/200

## JK-T10040/6040 Large area computerized pattern machine



JK-T10040



JK-T6040

suitable for

automotive supplies, luggage, footwear, non-woven bags, etc.



big presser foot for light and heavy material



pattern clip device



intelligent pattern recognition, accurate



Spline drive device

model	sewing range (mm)	needle	needle number	thread number	stitch length (mm)	presser foot height (mm)	max speed (S.P.m)	volume (mm)	weight (kg)
JK-T6040	600x400	DP×17 19#	1	2	0.1-12.7	22	2500	1920×1620×1440	343/479
JK-T10040	1000x400	DP×17 19#	1	2	0.1-12.7	22	2500	1920×1620×1440	352/488



## OGLLA.

## LUYAO FOOTWEAR INDUSTRY GROUP CO.,LTD

### Project Background

OGLLA belongs to Fujian Zhongmingjia Sports Goods Co., Ltd. its mission is "Prosperous development of technology and sports" and it focuses on safe, intelligent and environmentally friendly golf equipment development and manufacturing. Sichuan OGLLA Sports Goods Co., Ltd. is located in the weaving production area of Zizhou, Dongba, Santai County. The project has an investment of 350 million yuan, with a plant area of 45,000 square meters and 8 advanced shoe-making lines. The company mainly produces professional football shoes, sports shoes, etc., with an annual output of more than 6 million pairs of shoes. It is a comprehensive sports equipment manufacturing enterprise with senior professional experience. Its headquarter is located in Jinjiang, Fujian, and its products are exported to dozens of countries and regions such as Europe and North America.



### Customer Needs

1. The new factory area is highly automated, reducing labor cost by 40% and reducing the dependence on manual skills.
2. Improve product automation, reduce labor and other costs, and improve production efficiency.
3. Get through the visualization and digitization of the sewing production process to understand the production progress.

### Customer Benefits

We Integrate information technologies such as the IOT and the Internet into mass production to achieve flexible matching of different data, specifications and elements on the assembly line. Each order and material are planned accurately, and the information arranged to each department is synchronized with the physical object, ensuring that each department will not stop work and waiting for materials, and create flexible and personalized products.

The second phase of the OGLLA Sports Garment Industrial Park is planned to be fully coordinated from cutting, warehousing, logistics to production lines. The plant planning is all planned and

### Solution

Jack assisted the overall digital layout of the sewing workshop in OGLLA Sichuan New District. Four fully-intelligent thread drawing machines and cutting machines, 80 pattern machines, and 360 IOT sewing units have also been introduced to this factory. and automated equipment, digital technology and application software have been used to integrate IOT and other information technologies into mass production. Realizing the interconnection and interlocking of production equipment, greatly improving efficiency and accuracy, and greatly saving labor. Truly realized the modernization, digitization and intelligent factory of OGLLA.



### Customer Needs

1. Digitalization of workshop production and transparency of online production to improve the efficiency and accuracy of production management
2. Through the transformation of factories and workshops, the overall efficiency will be improved by more than 25%, and the phenomenon of recruitment difficulties will be alleviated
3. The digital transformation of the workshop has achieved a data accuracy rate of more than 96%, stimulating the enthusiasm of employees for production.

### Customer Benefit

Integrate information technologies such as the Internet of Things and ticket system into production, realize the transparency of assembly line data, and follow up production problems in real time and make adjustments. The automation of salary calculation, through the open data presentation of the dash board, not only reduces the number of payroll accounting personnel, but also greatly stimulates the enthusiasm of employee. Employee income has increased by 20% compared with last year, and the employee turnover rate has been greatly reduced compared with previous years. Effectively achieving a 25% increase in the overall efficiency of the factory.

### Project Background

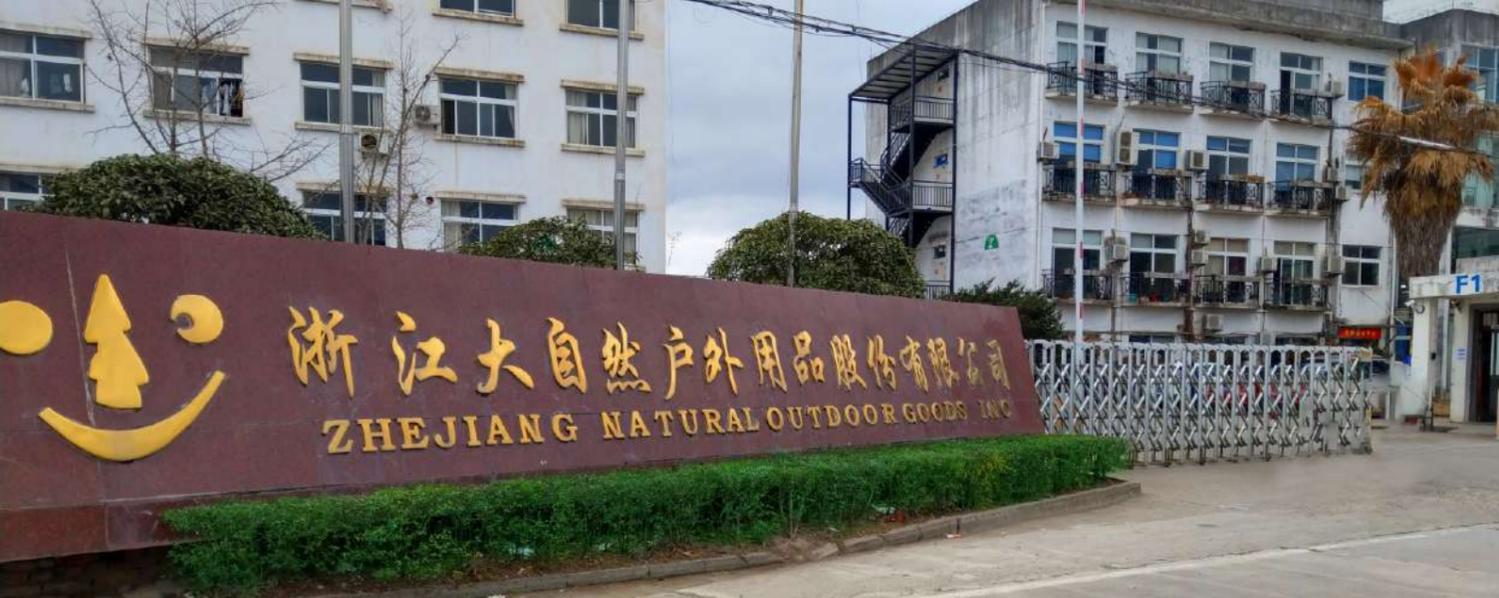
LUYAO FOOTWEAR INDUSTRY GROUP CO.,LTD. is a representative of domestic first-line shoe brands. In the factory, under the severe economic situation and the impact of the epidemic, there have been obvious recruitment difficulties and difficulties in employment. Starting from himself, Lu Yao put forward the goal of digital transformation in 2021, and continued to explore how to realize the digital production of shoe upper sewing, so as to obtain production transparency and real-time employee salary finally realized the digital transformation of the sewing workshop.

### Solution

The production data transparency of Luyao Group is realized through the IOT sewing unit and UCHAT software. According to the factory's demand for digitalization, realize the interconnection of all equipment in the workshop. Through the introduction of production digital dashboard, production problems can be found in time and solved in combination with on-site management, improving production efficiency by 15%. At the same time, the work ticket system is introduced to realize piece-rate and wage-rate production, so as to achieve benign PK among workers and stimulate employees' enthusiasm for production.

functional module:

1. stepping motor IOT roller machine
2. IOT sewing machine
3. Digital and transparent production



## Zhejaing Natural outdoor goods group



## DESAY GROUP

### Project Background

Zhejiang Natural outdoor goods group has been focusing on the R&D and production of sports and outdoor products for 30 years. It's the famous sports bag supplier and has established good and stable relationship with more than 200 brands in 40 countries. The company's top management has always attached great importance to industrial upgrading and the automation, informatization and intelligent transformation of equipment, so as to alleviate the contradiction between the increasing labor costs, the lack of skilled workers, the low skills of the novice and the high quality requirements, and the flexible production delivery time.



### Customer Needs

1. The automation needs of sewing equipment, achieve skills and labor saving, so as to maximize equipment utilization and reduce idle time.
2. Through the standardization of the process, the phenomenon of labor difficulties in the low and peak seasons of the factory is alleviated, thereby ensuring the delivery cycle in the peak season
3. The automation of the product process is improved, the quality stability of the product is required to be high, and the labor intensity is reduced at the same time.

### Customer Benefits

Integrating automation upgrade and transformation into the whole production process, from the initial establishment of the template development room to the improvement of the template process, not only reduces the cost of the fixture, but also realizes the standardization of the template process to ensure product quality, and meet product stability and high quality requirements. The realization of the multi-process merger of the template greatly improves the follow-up production efficiency and reduces the labor intensity, thereby alleviating the problems of difficulty in recruitment and labor in peak seasons, and ensuring product delivery time.

Through in-depth cooperation and development with Jack Company, a strategic partnership has been established, and more automation equipment and solutions have been provided to overseas Vietnamese factories.

### Solution

We supply 330 sets Jack sewing machine, mainly pattern machines to upgrade the digitalization of the factory. From the initial template making room establishment and template manufacturing process training, and then by improving the process template manufacturing, reducing costs, greatly improving efficiency and improving product quality, ensuring product standardization, and reducing labor intensity by 20%



### Customer Needs

1. Realize production line balance and increase production efficiency by more than 30%.
2. Shorten the production cycle and adapt to the order trend of small orders and quick response
3. Open up the logistics and information flow, so that the production process information is transparent and the progress is controllable.

### Customer Benefit

Reasonable production scheduling is carried out through digital production capacity statistics to avoid gaps in the production process, and the overall production progress is displayed in real time through the production progress dashboard to monitor the completion of each process. The workshop team leader can make adjustments according to the short board process displayed on the dashboard and make up for it in time to improve production efficiency. In addition, the daily efficiency of workers can also be counted. Once a process with a slow work rhythm is found, it will be immediately reported to the IE department for follow-up analysis to optimize the process rhythm. Reliable digital data runs through the entire production process, truly realizing the transparency and scientificity of workshop management, and improving worker efficiency and income.

### Project Background

Since its establishment in 1993, DESAY Group has developed into a modern large-scale enterprise with three specialized and standardized shoe-making bases, integrating R&D, production and sales. It is the strategic partner of many international famous shoe brand like CK, H&M and ALDO in China and develop suppliers.

In 2021, a new DESAY Technology Park was built in Wenzhou, and it has been put into production. In order to comply with the current trend of changing shoe styles and high personalized demand, the goal is to become a domestic and even world-class intelligent leather shoe manufacturer integrating intelligent manufacturing and flexible production.

### Solution

Through IOT sewing units, we realized the production data transparency of DESAY group. According to the factory's demand for digitalization, the workshop production equipment is connected with all things. Through the introduction of production digital dashboard, production problems can be detected in time and solved in combination with on-site management, improving production efficiency by 20%. Through dashboard optimization and ERP port opening, order scheduling and production information can be seamlessly connected.

functional module

1. Equipment management: monitor the status of the entire equipment and view the fault information.
2. Data dashboard: Display equipment startup rate, utilization rate, production progress
3. Data interface (API): call the cloud data interface of the tree root platform;
4. Parameter distribution lock: electronic needle torque adjustment is basically used, which saves money compared to the past
5. Template file distribution: preliminary test
6. Self-organizing network function: production line is divided into 12 groups, and the network is automatically formed through device deployment.