

## ZHONGBO LOOM

# Zhongbo Intelligence

invites you to weave a better tomorrow!

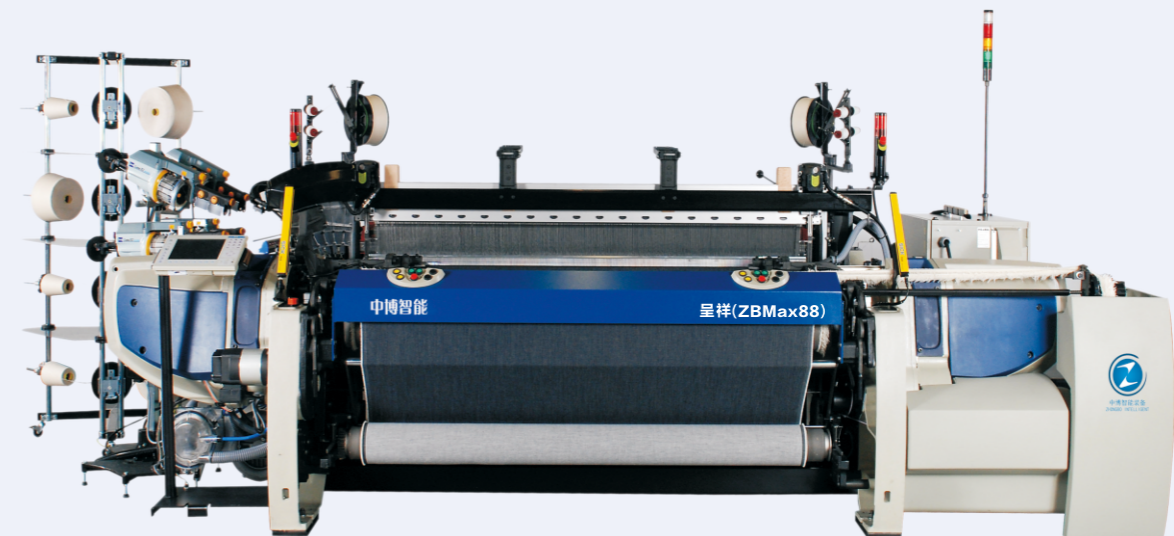
- ▶ THE MOST INTELLIGENT    THE BEST CLOTH STYLE
- ▶ Minimal maintenance costs    Minimal energy consumption

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## ZHONGBO INTELLIGENT



## Chengxiang (ZBMax88) model high speed rapier loom

- the fastest weaving speed
- the finest fabric style
- the most intelligent control
- the least energy for 100-meter cloth consumes the least energy
- the lowest maintenance cost of 100-meter cloth

## Zbmax88 model high speed rapier loom

~~ your ideal pursuit



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## Chengxiang (ZBMax88-600)



## Details pics of ZBMax88-600



## Ruixiang (ZBMax88-i)



## Ruixiang (ZBMax88-i) the most advanced model



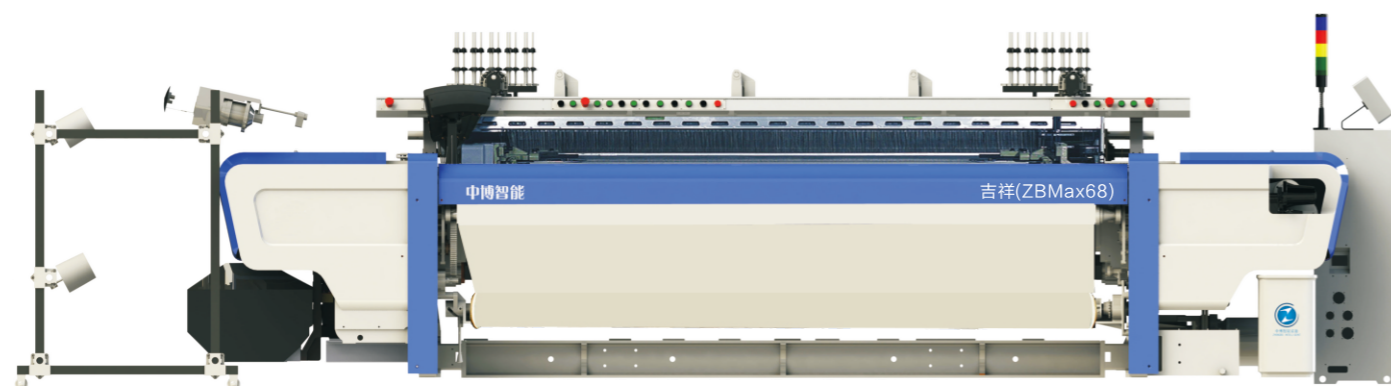
## Jixiang(ZBMax68)

Using high-end mechatronics technology, and the functions of international advanced looms, the performance and running speed of the loom have been at the leading level in China, and it is a cost-effective high-speed rapier loom.

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## Shunxiang(ZBGTMAX)

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# Chengxiang (ZBMax88)

## Main Advantages

01

### DRIVING WAY

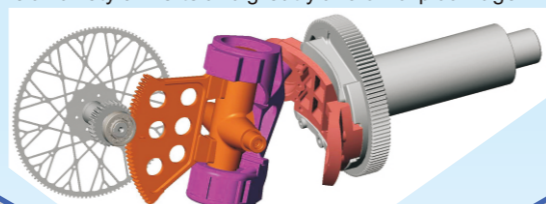
The super motor is directly driven to achieve strong starting, braking and slow action of the loom, and can be used for variable speed weaving to achieve the purpose of energy saving and emission reduction

02

### WEFT INSERTION SYSTEM

The space four-link mechanism optimizes the dynamic balance of the weft insertion mechanism, reduces the moment of inertia, ensures the high-speed performance of the weft insertion mechanism, and greatly enhances its reliability, stability and life. Two ways to insert the weft.

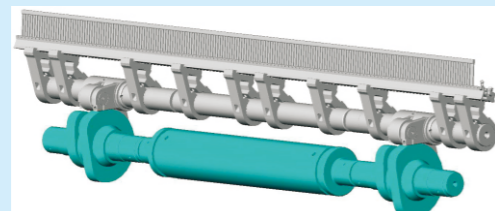
- Suspension guide hook weft insertion method  
Suspension guide hook shuttle, left side weft insertion, middle handover, small opening and small rapier head make the weaving speed has been unprecedentedly improved.
- Free flight weft insertion method  
Velvet shuttle is designed for weaving fine fabrics, which can weave a variety of wefts and greatly avoid warp damage.



空间四连杆机构

03

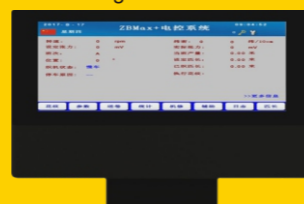
The high-speed conjugate cam beating mechanism on both sides of the middle part of the fuselage is adopted, the beating is strong and powerful, the movement is stable, the deformation of the beating weft axis is small, and the cloth style of the fabric is good.



04

### ELECTRONIC CONTROL SYSTEM

Optical fiber communication is used between the main servo and the main control board, which has fast transmission continuity and good dry resistance. The whole machine adopts 32-bit CPL scattered computer intelligent control of warp breaking, weft breaking, empty weft, weft insertion, positioning and stopping, automatic quality measurement and fault display. The white line statistics of the loom are sensitive, and the online/cloud monitoring can be realized



显示器面板

05

### WEFT FINDING SYSTEM

Two ways to find the weft: 1. electric weft finding, 2. hydraulic weft finding. The principle is that the main engine and the dobby are separated from each other when the weft is found, and the dobby movement is directly driven by the main motor to realize weft finding. The action is accurate to ensure that the fabric does not appear wrong, which is conducive to eliminating the traces of driving, reducing the source of failure, reducing the failure rate, and improving the weaving efficiency. The wide jacquard machine can adopt the principle of forward and slow reverse homing.

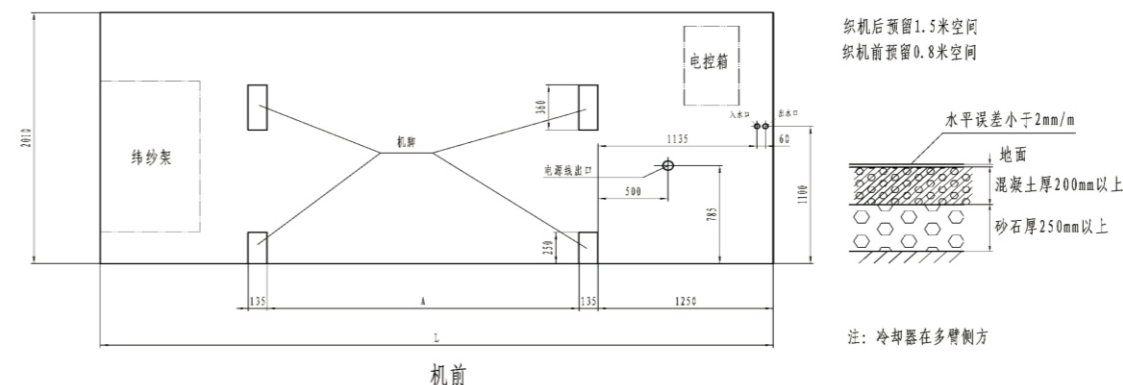


# Chengxiang (ZBMax88)

## MAIN TECHNICAL SPECIFICATIONS

REED WIDTH	190、210、220、230、240、250、260、280、300、320、340、360、380、400、420、460、520、600
RUNNING SPEED	The maximum speed is 750 rpm, and the economic speed is 200~600 rpm
POWER	Super motor with a rated torque of 150Nm
TAKE-UP	Servo electronic take up, the diameter of the cloth in the machine is $\phi 600\text{mm}$ and outside 1200mm
LET-IN	Servo electronic let-off, disc diameter is $\phi 800\text{mm}$ and $\phi 1000\text{mm}$
WEFT SELECTOR	Stepper motor controlled high-speed rotary electronic weft selector (2~8 colors)
SHEDDING DEVICE	Underneath electronic swivel dobby for up to 24 heald frames
SELVAGE MECHNISM	The stepper motor controls the independent edge twisting mechanism, and the folding edge device is optional
WEAVING YARN	Chemical fiber staple yarn: 5tex~1000tex; Chemical fiber filament: 10D~3300D; Cotton: 3 ~80
WEFT DENSITY	3~200 picks/cm

## Floor plan of the ZBMax88 high-speed rapier loom



Reed width	Length	Dimension
190	2225	4800
210	2425	5000
220	2525	5100
230	2625	5200
240	2725	5300
250	2825	5400
260	2925	5500
280	3125	5700
300	3325	5900
320	3525	6100
340	3725	6300
360	3925	6500
380	4125	6700
400	4325	6900
420	4525	7100
460	4925	7500
520	5925	8500
600	7725	10300

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01

ELECTRONIC CONTROL SYSTEM

The control system is intelligent, information-based and networked. 32-bit CPU motherboard and embedded software are used for fast acquisition and monitoring.

1. The best cloth quality

Digital control positioning stop/start; Intelligent automatic weft finding; Automatic compensation for warp and weft breakage; The unique warp break, weft break when the function that all heald frames are in the heald flat position has played a decisive role in solving the parking gear.

2. The fastest fault detection

Intelligently displays the fault, can accurately judge the cause of the fault and provide a detection plan.

3. The most convenient management

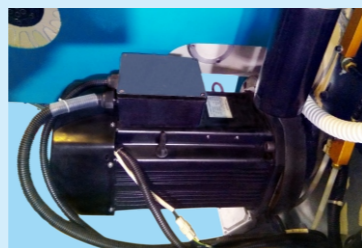
It can automatically count the output and total output of four shifts, realize group control network management, and quickly change varieties



02

DRIVING SYSTEM

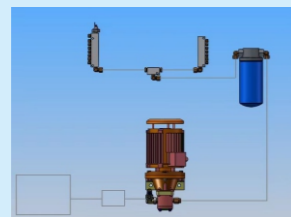
It is directly driven by a switched reluctance motor, with simple structure and small failure rate, and the speed can be adjusted at will.



03

LUBRICATION SYSTEM

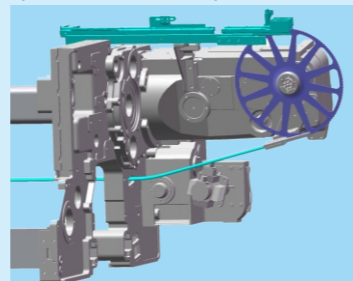
The closed forced circulation lubrication system of the independent oil pump motor is lubricated before the operation of the main engine, which ensures that the moving parts obtain reliable and good lubrication, and sets up the alarm function of insufficient oil level and insufficient oil pressure.



04

U-SHAPED RAPIER MAGAZINE

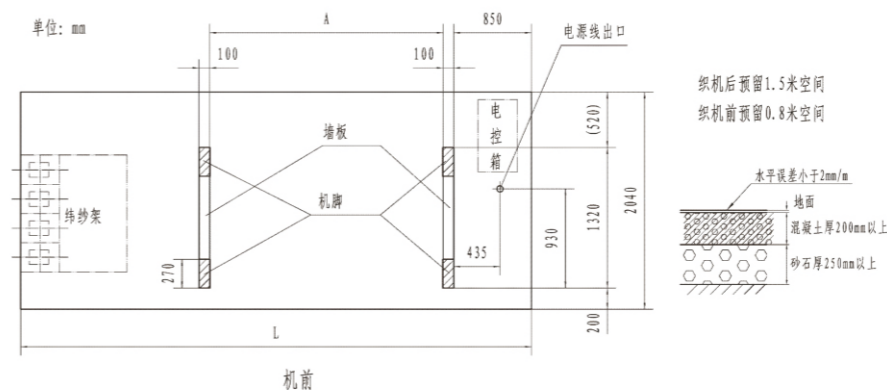
The U-shaped rapier magazine improves the meshing degree of the rapier wheel and the rapier belt, and increases the angle of the rapier belt to increase the life of the rapier belt and the rapier wheel.



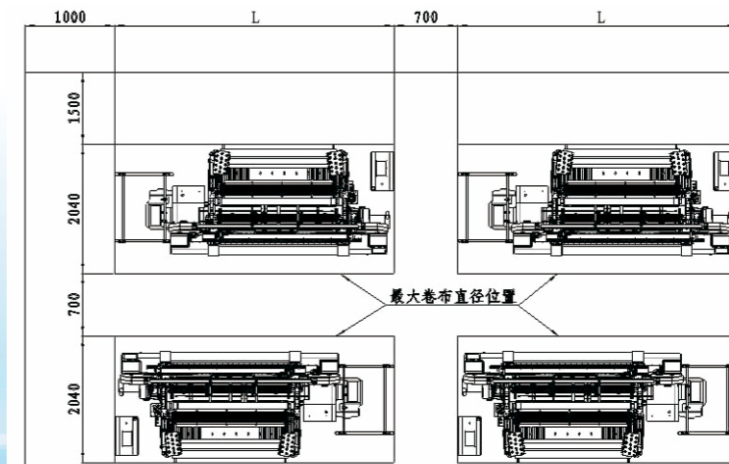
► Main technical characteristic

REED WIDTH	190、210、220、230、240、250、260、280、300、320、340、360、380、400、420
RUNNING SPEED	The maximum speed is 530 rpm, and the economic speed is 350~380 rpm (190cm machine) Weft insertion rate 1080m/min
POWER	High power main motor or super motor, power 5.5kW and 7.5KW
SHEDDING DEVICE	Electronic dobby shedding, up to 20 heald frames
TAKE UP	Servo electronic take up, the diameter of the cloth in the machine is $\phi$ 600mm and outside 1200mm
LET IN	Servo electronic let-off, disc diameter is $\phi$ 800mm and $\phi$ 1000mm
WEFT SELECTOR	Stepper motor controlled high-speed rotary electronic weft selector (2~16 colors)
SERVAGE MECHANISM	Stepper motor controls independent hemming mechanism (one or both sides)
WEFT YARN	Cotton: 3 inch ~ 60 inch count; Filament 10D~3300D; Man-made fiber 5Tex~1000Tex
WEFT DENSITY	15.7~1340ends/10cm

► Floor plan of the ZBMax68 high-speed rapier loom



Reed width	Length	Dimension
190	2194	4800
210	2394	5000
220	2494	5100
230	2594	5200
240	2694	5300
250	2794	5400
260	2894	5500
280	3094	5700
300	3294	5900
320	3494	6100
340	3694	6300
360	3894	6500
380	4094	6700
400	4294	6900
420	4494	7100



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## Chengxiang (ZBMAX98J) High Speed Jacquard Rapier Loom

ZBMAX98J high-speed rapier jacquard loom is an intelligent high-speed jacquard loom that is leading in China and advanced in the world.

### Transmission mode

Vertical shaft transmission independent transmission

### Weft insertion mode

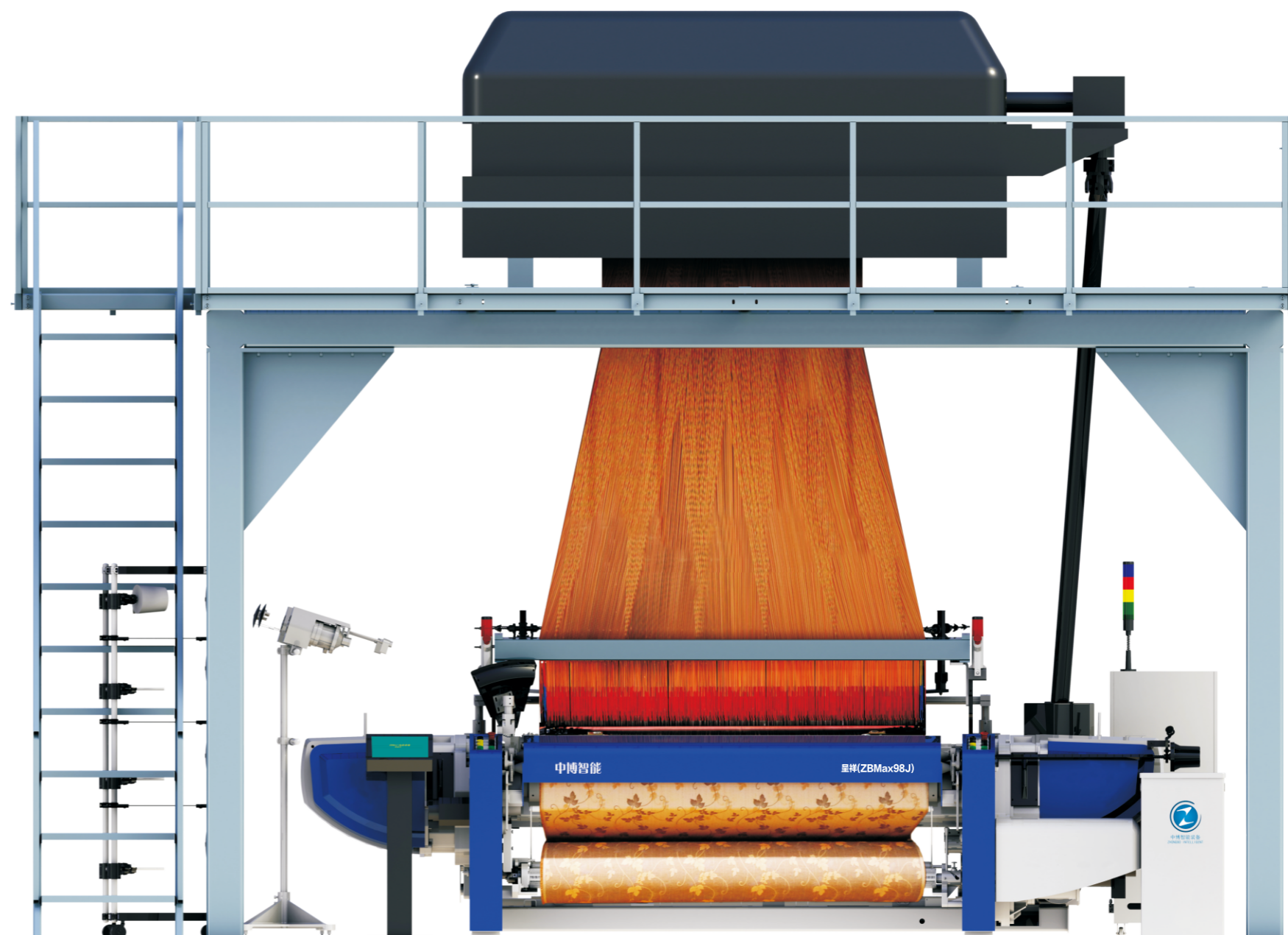
Suspension guide hook weft insertion mode Free flight weft insertion method

### Shedding mechanism

Electronic jacquard faucet opening, it is convenient and fast to change the organization, and it can be equipped with any number of needles

### MAIN TECHNICAL DATA

REED WIDTH	190、210、220、230、240、250、260、280、300、320、340、360、380、400、420
WEAVING SPEED	ZBMAX98J-340 economic speed 250~350 rpm
POWER	Super motor with a rated torque of 150Nm
TAKE UP	Servo electronic coiling, the diameter of the cloth in the machine is $\phi 600\text{mm}$
LET IN	Servo electronic let-off, disc diameter is $\phi 800\text{mm}$ and $\phi 1000\text{mm}$
WEFT SELECTOR	Stepper motor controlled high-speed rotary electronic weft selector (8~12 colors), up to 16 colors
SHEDDING DEVICE	Electronic jacquard faucet. According to the pattern warp width, it can be equipped with jacquard faucets within the range of 1344~12288
SELVAGE MODE	The stepper motor controls the independent edge twisting mechanism or the faucet controls the edge holding
WEAVING YARN	Cotton: 3 ~80s; Chemical fiber staple yarn: 5tex~1000tex; Chemical fiber filament: 10D~3300D
WEFT DENSITY	3~200 PICKS/CM



# Chengxiang (ZBMAX98J)

## SUITABLE FOR WEAVING FABRIC

It is suitable for cotton spinning, silk silk, silk, viscose, etc., mainly used for home textile decorative fabrics, sofa hair, jacquard shirt fabrics, ribbons, calligraphy and paintings, etc.



# Industrial Fabric Machine

► The overall structure has strong rigidity, large beating force, large holding force, and super wear-resistant mechanism, which makes the machine suitable for a wide range of weaving.

► Suitable for weaving the following technical fabrics:

1.Textiles for agricultural cultivation	2.Textiles for culture
3.Geotextiles	4.Canopy and canvas
5.Filter cloth and screen	6.Insulation materials and insulation
7.Packaging materials	8.All kinds of labor protection and protective net materials
9.Recreational and sporting goods base fabrics	10.Medical and health care and maternal and child health care materials
11.Cloth for the defense industry	12.Cloth for automobiles and airplanes
13.Skeleton textile fabrics for transmission, transmission, ventilation pipe belts and tires	

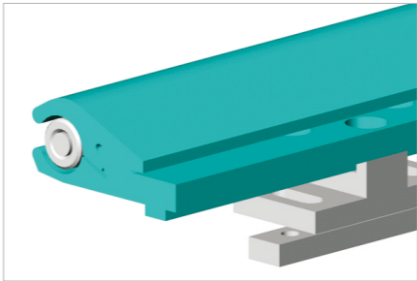
## Special Mechanism Optional

► Three rear beam mechanisms

Adopting three rear beam mechanism is conducive to increasing the weaving tension. (figure omitted)

► Full-width weaving mechanism

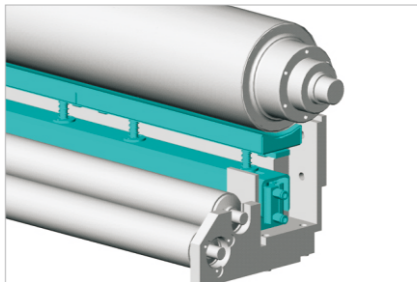
Increases grip strength.



► Large batching device under the machine (figure omitted)

► Hot blanching, heat setting, heat

cutting mechanism  
Using PID precise temperature control technology, the ironing plate and side bracing are all energy-saving design.



## MAIN TECHNICAL SPECIFICATIONS

REED WIDTH	190、210、220、230、240、250、260、280、300、320、340、360、380、400、420
RUNNING SPEED	The maximum speed is 530 rpm, and the economic speed is 300~420 rpm (190cm machine)
POWER	Driven by a high-energy main motor or a super motor
WEFT INSERTION	Space four-link mechanism
WEFT BEATING	Double-sided conjugate cam to separate the reed seat
SHEDDING DEVICE	Underneath electronic dobby with up to 20 heald frames
WEFT DENSITY	30 ~ 80PICKS/10CM
WEAVING YARN RANGE	Suitable for geotextiles, filter fabrics, canvas fabrics, electronic fabrics, mesh fabrics, automotive fabrics,

## Zhongbo Intelligent Equipment

### COMPANY PROFILE

Founded in 2017, Jiangxi Zhongbo Intelligent Equipment Manufacturing Co., Ltd. is a leading high-tech enterprise specializing in R&D, design, production, and sales of advanced intelligent equipment. Located in Fuzhou, Jiangxi—a city known for its welcoming business environment and rich talent pool.

Zhongbo Intelligent has introduced cutting-edge weaving solutions like the "ZBMax88" high-speed rapier loom, which meets international standards and is highly regarded by users. We also offer intelligent high-speed industrial cloth looms and jacquard looms, with products exported to countries including India, Russia, Belarus, and Indonesia.

Our dedicated team, comprised of top talents in mechanical design, electrical design, software development, and big data, ensures our equipment is fast, efficient, and adaptable to market needs. Committed to the principles of integrity, efficiency, and innovation, we aim to elevate the textile industry and invite partners from all sectors to join us in crafting a prosperous future.



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▶ False warp beam warp tension self-homogenizing device has a unique effect on the weaving of 0 fiber groove needle yarn, suitable for 120e



▶ Fiberglass yarn weaving  
Fiberglass coated cloth, fiberglass grinding wheel cloth and other types of fiberglass cloth



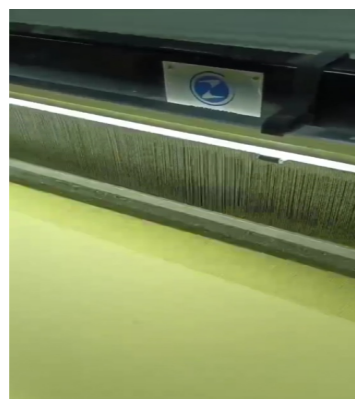
▶ Industrial filter weaving  
Industrial fabrics such as monofilament filter cloths



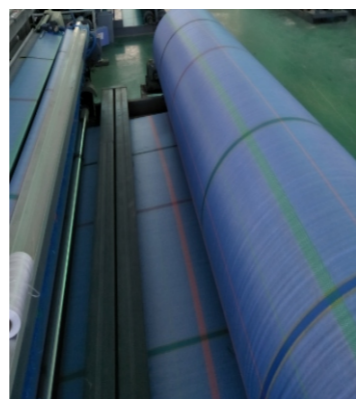
▶ Carbon fiber yarn weaving



▶ Aramid fabric weaving



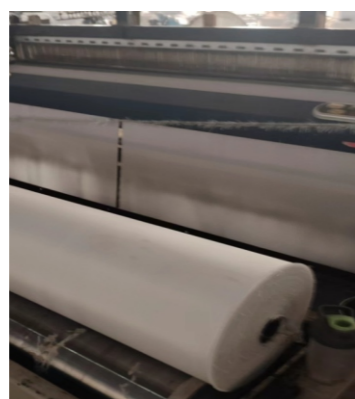
▶ Wide tarpaulin weaving



▶ Canvas fabric weaving



▶ Conveyor belt fabric weaving



▶ Special yarn weaving

