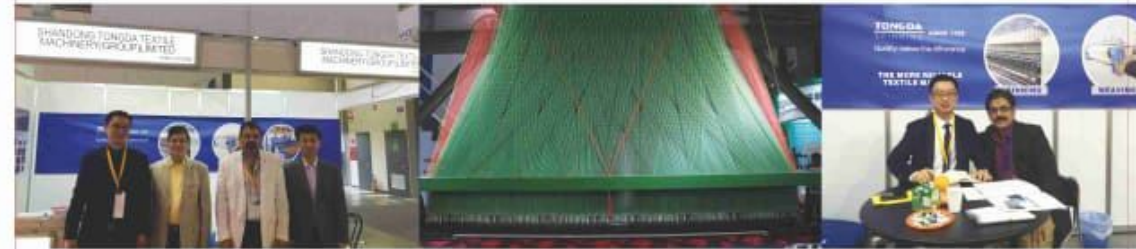


**Quality makes the difference**  
**Your reliable partner**



## Company Introduction

Tongda Group specializes in design, manufacturing, and marketing of a wide range of Textile machinery, it has five branch companies, mainly produces blow room, cotton carding machine, draw frame, Roving frame, rotor spinning machine, ring spinning machine, water jet loom, nonwoven machinery etc. The company has built a complete infrastructure to support a full effort for product research and development to satisfy the needs of the marketplace. Production capability for cotton machinery and spinning machinery products sustains an annual quantity of 20,000 units of various models.

Tongda has been growing steadily since 1952 when the spinning machine were developed. Tongda places its focus on becoming a professional supplier of Textile machinery and new materials with continuous development of modern ergonomic designs, a reliable service support network, and an efficient global network of logistics. Today, Tongda machines are being widely used by thousands of cotton and yarn, textile manufacturers.

Along with product development, Tongda has been awarded technology patents. Special techniques in design and manufacturing have also been perfected.

Tongda is an ISO9001, ISO14001, and ISO13485 company. The products are designed to meet the technical standards of 3C and CE. All the products are certified by the Industry Administration Authority.

Tongda will continue to strive to be a stronger leader in the global market of Cotton machinery and Spinning machinery.

## TDW-851 Single Nozzle Water Jet Loom



### Mainfeature

TDW851, the single nozzle plain shedding water jet loom, has been overall improved and strengthened from let-off, shedding, take-up, transmission system and the stability, therefore it has the operation capacity of high speed and continuous stability and the advantage of wide applicable sphere. This machine can be equipped with single pump double nozzle free abb choosing system, double pump double nozzle free abb choosing system, double pump triple nozzle free abb choosing system; cam shedding device, dobby shedding device; electronic let-off, electronic take-up.

Optional breadth: 170, 190, 210, 230, 260, 280, 340, 360cm.

Weft insertion rate: Mix 2280 meter per minute

Speed: Mix 1200 RPM (the actual speed depends on the species of the fabric)

The number of heddle: 2, 4, 6, 8 pieces

Cam shedding 10 pieces utmost

Dobby shedding 16 pieces utmost

Power: 2.2 KW, 2.6 KW, 2.8KW, 3.0KW, 3.5KW, 4.0KW, 4.5KW.

Range of weft destiny: 5-60 thread/cm



## TDW-871

Single Nozzle High-speed Water Jet Loom



### Mainfeature

TDW871, the single nozzle plain shedding water jet loom, has been overall improved and strengthened from let-off, shedding, take-up, transmission system and the stability, therefore it has the operation capacity of high speed and continuous stability and the advantage of wide applicable sphere. This machine can be equipped with single pump double nozzle free abb choosing system, double pump double nozzle free abb choosing system, double pump triple nozzle free abb choosing system; cam shedding device, dobby shedding device; electronic let-off, electronic take-up.

Optional breadth: 170, 190, 210, 230, 260, 280, 340, 360cm.

Weft insertion rate: Mix 2280 meter per minute

Speed: Mix 1200 RPM (the actual speed depends on the species of the fabric)

The number of heddle: 2, 4, 6, 8 pieces

Cam shedding 10 pieces utmost

Dobby shedding 16 pieces utmost

Power: 2.2 KW, 2.6 KW, 2.8KW, 3.0KW, 3.5KW, 4.0KW, 4.5KW.

Range of weft destiny: 5-60 thread/cm



## TDW-408

High-speed Heavy Water Jet Loom



### Mainfeature

TDW-408 series water jet loom is the new model of the company, the frame of the whole machine is enlarged, which expands and the area of support of the beam. Therefore, the stability and aseismicity of the machine are greatly increased. The stability of beating-up is highly enhanced which guarantee the high quality of fabric. The machine has been innovated and improved in the aspects of transmission, cam and shedding, let-off and take-up system, as a consequence, it is quite suitable for the hi-speed and stable weaving of heavy and hi-density fabric.

This machine can be equipped with single pump double nozzle (TDW-408B) electronic weft feeder, double pump double nozzle (TDW-408B-2P), double pump triple nozzle (TDW-408C2P) electronic weft feeder; it can be equipped with cam shedding device, dobby shedding device; also the electronic let-off and the electronic take-up.

Optional breadth: 170, 190, 210, 230, 260, 280, 340, 360cm.

Weft insertion rate: Mix 2280 meter per minute

Speed: Mix 1200 RPM (the actual speed depends on the species of the fabric)

The number of heddle: 2, 4, 6, 8 pieces

Cam shedding 10 pieces utmost

Dobby shedding 16 pieces utmost

Power: 2.2 KW, 2.6 KW, 2.8KW, 3.0KW, 3.5KW, 4.0KW, 4.5KW.

Range of weft destiny: 5-60 thread/cm





## TD-736

Speed rapier loom



### Main datas

Model	TD736
Reed width (cm)	200cm (78"), 230cm (90"), 280cm (110"), 360cm (141")
Speed	190-300RPM
Yarn range	cotton: 6Ne-80Ne, Wool 10Ne-135Nm, Chemical fabric: 900D-70D
Shedding	Upper mechanical (electronic) dobby, spring reversing motion, 20 or 24 shafts
Weft insertion form	Six linkages weft insertion
Beating-up motion	Four linkages short crank arm beating-up
Let-off motion	Adopting friction type let-of
Take-up and rolling-up	Continuous take-up and separate rolling-up, full rolling diameter 400mm
Weft selection	4-6 colors
Diameter of warp beam	∅ 600mm
Warp stop	6 rows electric warp stop
Weft stop	Piezoelectric ceramic sensor control weft stop
Electric system	PLC
Power	1.8-2.2kw
Weight	3200-3500KG
Overall size	3700x2000x1800mm ("200cm/78")

## MAKE WEAVING SUCCESS



### Application

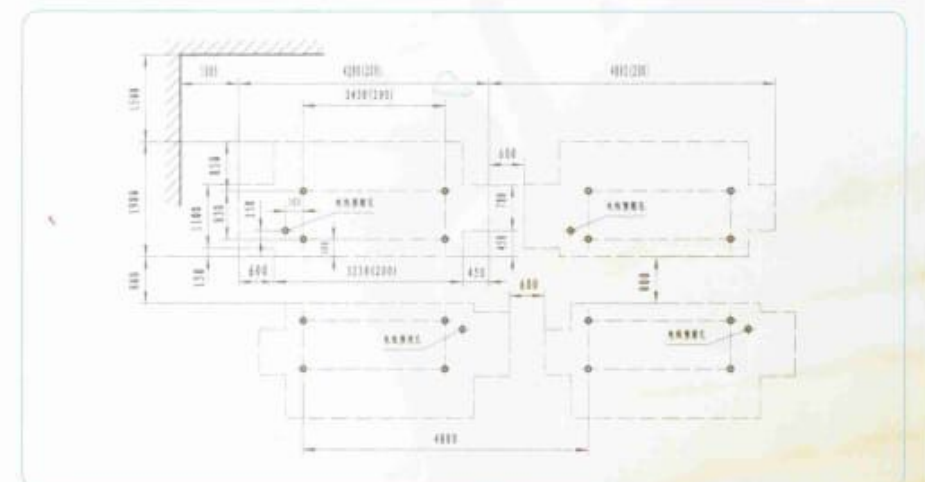
This rapier loom is used to weave fabric with crude fibers (cotton, wool, hemp, silk), chemical fiber and blending yarn etc. It is better for weaving thick fabrics than YJ747 loom.

### Feature

With stronger frames and improvement of the beating-up and weft insertion devices on YJ747, the speed of TD736 loom is higher and it can weave thicker fabrics than YJ747. The details of special feature as follows.

1. Adopt the four-links short crank, shorten and strengthen the lay swords, that get the loom to produce stronger strength when it beating up and the speed is higher.
2. The new six-links weft insertion system replaces the old four-links weft insertion, that assures the rapiers have enough time to finish weft transfer-inserting and get handover to be stable.

### Layout drawing of 4 sets of looms with 2300mm (90")



## TDA-810

High Speed Air Jet Loom

### Mainfeature

This type of loom frame and beam rigidity is enhanced, the machine has good stability, beating-up mechanism further optimization, structure more reasonable, can use four or six Linkage Beating-up connecting rod. The six connecting rod beating-up, can prolong the time for opening of warp, weft, more suitable for wide loom weaving fabric, broaden the scope of weaving loom.

The opening mechanism of this type of crank optional: opening, cam, electronic dobby, jacquard, with electronic let-off, electronic take-up, variable density of weft knitting; warp stop, double weft electronic length measuring, electronic weft storage, selvage yarn breaking detection, edge detection by catching weft yarn electronic control, make the operation more humane.

Its structure is reasonable: the further optimization of beam structure, change the warp tension sensing more sensitive. After the tension roller bracket installed in the outer side of the frame, which is convenient for installation and repair.

The series of looms due to its high rigid frame structure, suitable for weaving high density, high fine fabric, and a let-off, take-up and each detection unit, are used in electronic control, can effectively reduce the stop block, the mechanical stop, warp, weft weaving defects such as short rates, improve the quality of production.

### Specification

- |  |   |
|--|---|
| 1-Reed space: 150, 170, 190, 230, 280, 340 ( cm );   | 9-Let-off: electronic let-off;  |
| 2-The maximum number of weft insertion: maximum weft insertion;  | 10-Take up: electrical ;  |
| 3-Rate can reach 1235m/min (depending on fabric types);  | 11-Stops: 6 lines of electronic stopping device;  |
| 4-Weft: short fiber: 7 to 60tex ( 80 to 10Ne ) (need additional device if below 10)                      | 12-Weft stop: double weft detection;  |
| 5-Long fiber: 5 to 44tex ( 40 to 400den );   | 13-Weft supply: single color, two-color ,four-color mixed free weft, weft;  |
| 6-The main transmission : use AC starting torque motor direct starting,slow forward and reverse running; | 14-Sevage: leno (rough and plain);  |
| 7-Shedding: crank, cam, electronic dobby, jacquard;  | 15-Electrical control: using programmable computer controller as the core,  |
| 8-Beating-up: bilateral four connecting rod, the six connecting rod beating-up;                          | 16-Can set all kinds of weaving parameters;   |
|  | 17-Lubrication : the big gear, let-off, take-up gear box with the oil bath type lubrication, the other by forced centralized oil supply mode. |
|  | 18-Power: 190cm :2.6kw, 230cm:2.8kw, 280cm:3.7kw  |



**MAKE WEAVING SUCCESS**



### STABLI CAM

#### New type of pressure relief unit

With all pressure adjusting valves located at one place (Patent No. 201220633829.1), it is easy to adjust, loss on air flow reduced, air source saved, and energy consumption reduced.



#### Raising and lowering structures of double rollers

At rolling up, the double roller structure can raise the upper and lower roller at the same time which will take out the fabric together with take-up roller. It is easy, convenient, safe and reliable.



#### High strength frame structure

A strong machine frame has been constructed with box typed wall sheets, square tubes and angle beams, with braces in the middle, support sheets welded on the top and bottom side of the front beams, and solid beating beams



#### New type of rear beam structure

The latest dual real beam moving structure (patent No. 201220635526.3) with swinging connecting rod mounted outside, and since the overall structure is moved downward it is very easy to adjust



**TD-737J**

Electronic jacquard towel loom



**Main datas**

Model	TD737J
Reed width	200CM(78"),230cm(90"),250cm(100")
Speed	200-250r.p.m
Walt selection	8colors
Yarn count	cotton: 7Ne-60Ne,Chemical fabric:100D-450D
Dia. of terry beam	∅ 800mm
Dia. of ground beam	∅ 650mm
Let-off type	up and down warp yarn are both adopt induction types electric let-off
Terry raising type	Terry raising type:actuating motor control terry herght
Height of terry	adjust from 2-12 times by program,it can weave wave tyoe terry
Shedding mechanism	double lift clear shedding
Return type	elastic return
Jacquard shedding height	110mm
Jacquard needle quantity	according to the different electric jacquard type(1480,2688)
Transmission type	vertical spindle driving
Electric control	imported P.L.C
Motor power	3.5KW
Weight	2500-2900kgs
Overall size(LxWxH)	5200x2500x4500mm (230cm model)

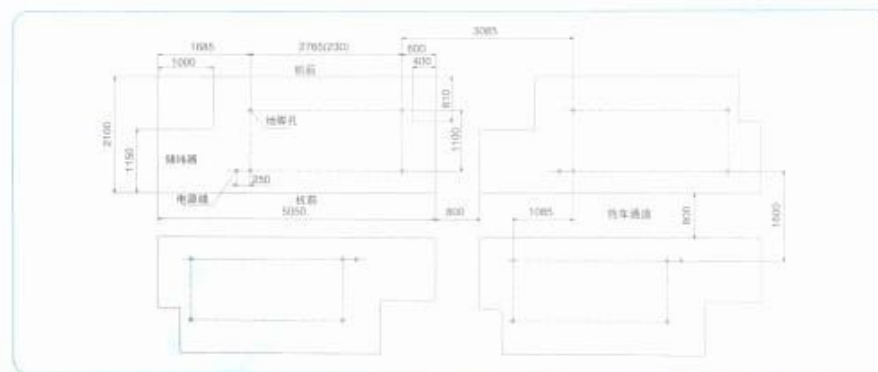
**Application**

This loom is used for weaving all kinds of top grade jacquard towels for face,tea,bath and floor etc.

**Feature**

This model adopt electric let-off,electric rolling-up,electric terry,electric jacquard shedding,adopts actuating motor to control the terry height,It is a advanced jacquard towel loom in China,it can weave wave type terry and other hard-weaving towels.

**Layout drawing of 4 sets of looms with 2300mm(90")**



## TDA-700

High Speed Air Jet Loom



### Let-off and take-up system

**ELO: electric let-off**

Overall yarn tension will be detected by tension sensor, and then signal will be processed by CPU, which will control the feeding of warp according to the real-time cloth roll diameter, in the same time, servo motor will control to form even tension to eliminate unbalanced distribution of warp and weft during start up.

**ETU: electric take-up**

An AC servo motor is used in ETU system and controlled by computer which enables it to synchronize with machine and control beating density. Weft density can be set simply on touch screen, no need to replace change gear. What's more, by linkage with ELO, stop times are effectively reduced.

### 100% guarantee on lubrication of cycle system

Oil bath lubrication is applied in most transmission parts like main powertransmission, let-off, take-up, beating and shedding system. Central oil injection is done to other parts, which prolongs the period of oil injection, more easy for maintenance.

### Strong tri-bar back tension structure

The design of machine structure is more reasonable, more sensitive to minor changes of tension; makes inch move to maintain certain tension as weft tension changes, eliminating uneven distribution of warp due to stop and restart.

### Weft insertion device

**Electric feeder**

Electric feeder is able to weave a wide variety of yarns; it is able to automatically adjust to meet the feeding characteristic, therefore the fluctuation of yarn tension is reduced to the lowest and weft insertion is made more smooth and stable. The optical feeler of two probes is not only able to detect short weft or missing weft, but to detect the occurrence of broken weft and over-long weft.

**Auxiliary Main Nozzle**

Weft will be inserted at low air pressure, to prevent damage to weft. Therefore, the machine is able to maintain stable performance during high speed running or wide weaving situation where weft is easy to get relaxed.

**Stretch Nozzle**

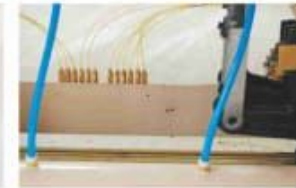
Stretch nozzle is especially useful to process loose-easy yarn. The nozzle works by pressing air to tightly hold weft.



### Product Features

This air jet loom adopts the weft insertion method of combination of fixed main nozzle+ swing main nozzle+ auxiliary nozzle+ double feeler; it is also characterized by such features: double-sided four or six shedding lever beating system, positive cam electric jacquard system (enlarging the production scope of machine), ELO, electric weft insertion, ETU, slow frequency conversion system, auto weft-searching, auto-stop upon broken warp functions. It therefore provides more stable performance.

This model has advanced design and stable performance, solved problems of frequent stops, mechanical stop, missing weft and missing warp, suitable to weave grey cloth, light or medium-weight, jeans, and etc.





**TDA-700**

High Speed Air Jet Loom

**Man-computer interface design**

- 1-Big size touch screen is used, easy for operation. Man-Computer interface is strengthened. It is able to diagnose existing problem on its own, and display the cause of stop.
- 2-The operator is able to change and type in new setting specification on the touch screen.
- 3-Certain specification can also be stored in the computer via memory card.
- 4-If one sets the machine to stop once certain length of cloth is finished, cloth inspection process will be finished smoothly.
- 5-Personal performance of one operator can be analyzed according to production records stored.

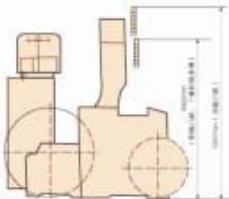


**Shedding mechanism in loom**



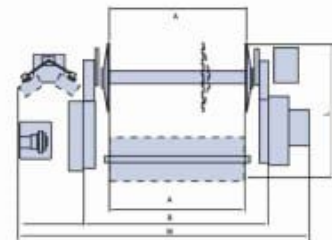
Different shedding types are available like positive cam shedding and dobby shedding, suitable for weaving plain, stain and twill fabric. The shedding is clearer, wefts pass easily, therefore, production efficiency is increased. Cam gear box is lubricated with oil bath, more stable.

- ① Negative cam shedding: works with 8 pieces of heald frame at most. This cam box is designed with excellent shedding, suitable for running at high speed, also easy to replace with new cam. It is suitable to produce such fabric as plain, twill and satin.
- ② Crank shedding: works with 4 pieces of heald frame, suitable to produce high quality plain fabric.
- ③ Positive cam shedding: works with 8 pieces of heald frame at most, suitable to produce such fabric as plain, twill and satin. It is most mounted on heavy-duty or extra-wide type loom.
- ④ Dobby shedding: working with 16 pieces of heald frame at most, suitable to produce such high value-added fabrics as plain, twill, satin and small jacquard.



**Machine size**

机器总长Flange dia.		980						
L		1980						
分锭数锭 Feed space (mm/英寸)	1900(S)	2100(S)	2300(H)	2500(H)	2650(H)	3400(H)	3600(H)	
W (英寸)	消极凸轮开口 Negative cam	3380	4150	4390	4883	5230	5730	5900
	积极凸轮 Positive cam (ETA系列: 1000)	4030	4530	4730	4883	5230	5730	5900
	半置式积极多锭 Foot-mounted double dobby (TAJHSJ-2000)	4430	4930	4930	5070	5200	5600	6120
	A	1900	2100	2300	2500	2650	3400	3600
	B	2540	2740	2940	3140	3400	4000	4200



**TDA-708**

Air Jet Loom for Medical Gauze



TDA708 is innovated and developed based on existing advanced design to replace shuttle loom which has many shortcomings as low efficiency, high failure rate, complex processes and much labor. This model is suitable to weave 21-40 lines absorbent gauze (sizing free). The frame and supporter bar of high rigidity reduced vibration, adding more to stability. High level of electronic automation system is able to display working efficiency and production volume of each shift. You can also set the machine to auto stop at certain production length. The model is designed with advanced air jet cutter which leaves smooth edges, improving fabric quality.

The adoption of single nozzle electric feeder improves machine-start rate, saving weft. Main transmission parts are lubricated in oil bath, reducing maintenance cost. Air is supplied by double air pump, which reduces cost in comparison with centralized air supply. What's more, this model eliminates weft and yarn rolling and fabric cloth, thus reducing labor cost.

**Optional accessories**

Optional accessories:

- Take-up: 1. inside take-up (Max. c 520)
- 2. outside take-up (Max. c 1200)
- Let-off: 1. passive let-off
- 2. mechanical let-off
- Beam pipe: 1. shuttle loom : 600 beam pipe with iron pan
- 2. air jet loom : 800 beam pipe with aluminum

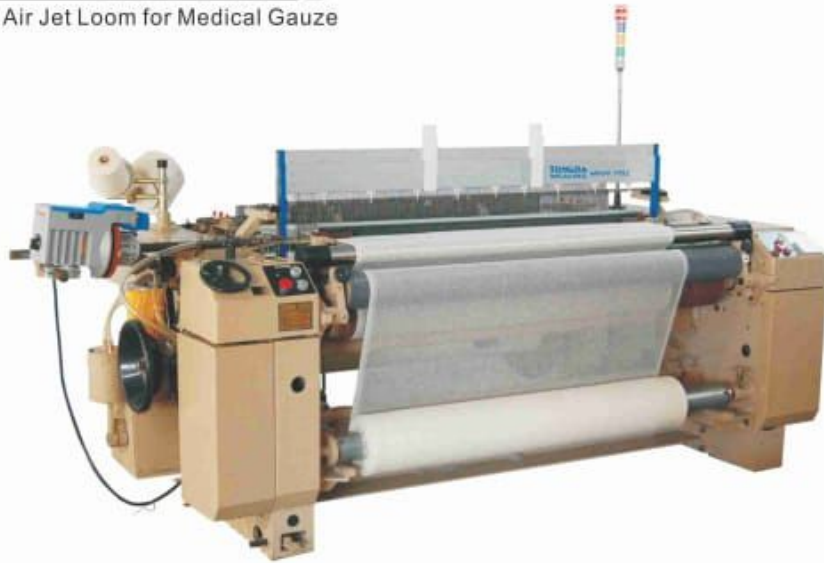


Smooth selvage



**TDA-708**

Air Jet Loom for Medical Gauze



**Main dimensions and specifications:**

1. Reed Space (nominal): 135 150 190 (cm)
2. Feeder: Single nozzle electronic feeder
3. Power: electromagnet brake pan; Motor: 1.1kw for 135cm 150cm, 1.5kw for 190cm
4. Weft insertion: single steel tube nozzle, pipe-shaped reed
5. Shedding: crank opening with two pieces heald frame.
6. Let-off: passive or mechanical
7. Take-up: inside or outside machine body
8. Beating: four shedding lever winding beating
9. Selvage: cloe and rough selvage
10. Running speed: 400-500RPM
11. Weight: 1.3-1.8T
12. Dimensions: 135CM 3050mm\*1540mm  
150CM 3200mm\*1540mm  
190CM 3600mm\*1540mm  
Device width 1300mm for outside take-up



Selvage device



Independent air supply device

**TDA-710**

Smart Air Jet Loom

This model is developed based on water jet loom, with transmission system, mechanical let-off, mechanical take-up, shedding section and frame body the same as water jet loom. The differences are with beating section, weft insertion by centralized air jet and human-machine interface displace system. The successful development of the model reduces user equipment cost, which means simple fabrics can be made by low-cost machine. It is suitable to weave cotton, polyester and blend fabric.



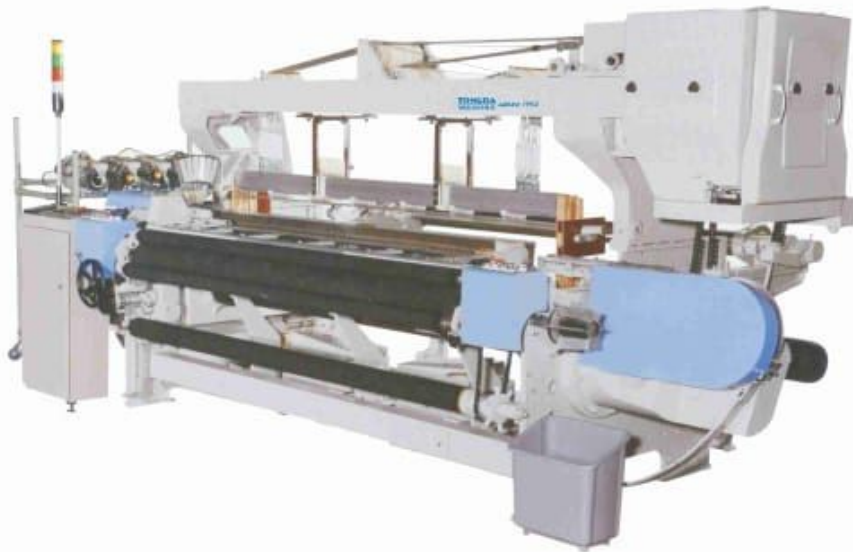
**Main dimensions and specifications:**

- 1 Reed Space (nominal): 190, 210, 230, 280, 340(cm)
- 2 Weft selection: mechanical or electric feeder (Single or double nozzle electric feeder)
- 3.Motor: 1.8KW, 2.2KW, 2.8KW, 3.5KW. Power: electromagnet brake pan;
- 4.Running speed: 500-700RPM
- 5.Weft insertion method: main nozzle+ auxiliary nozzle, use unusual reed, electromagnetic control
- 6.Shedding : crank, cam doobby
- 7.Let-off: mechanical
- 8.Selvage: planetary gear
- 9.Cutter: mechanical
- 10.Auto-stop on broken weft, 2 optical feeler; broken warp: 6 lines electric contact bar; reason for auto will be displayed on screen. 4 color led light; others: auto stop on broken twist and trash yarns.



## TD-736A

Speed rapier loom



### Special design for India market

#### Main datas

Model	TD736A
Reed width (cm)	190cm,210cm,230cm,280cm,350cm
Max speed	300RPM(190cm)
Color selection	6,8colors
Yarn range	cotton: 7Ne-60Ne,Wool 12Ne-100Nm, Chemical fabric:100D-650D
Diameter of beam	⌀ 800cm , ⌀ 680cm, ⌀ 600mm
Diameter of rolling-up	⌀ 600mm
Let off/take up	Electronic/continuous
Shedding	mechanical(electronic)dobby,cam, electronic jacquard.
Weft stop	piezoelectric ceramic sensor control weft stop
Warp stop	6rows electric warp stop
Color selection	mechanical or electronic
Electric system	electronic board
Control system	PLC
Power	2.2kw
Weight	3200kg-3500kg
Overall size	4706x1936x2220cm(230/90,..)

## MAKE WEAVING SUCCESS



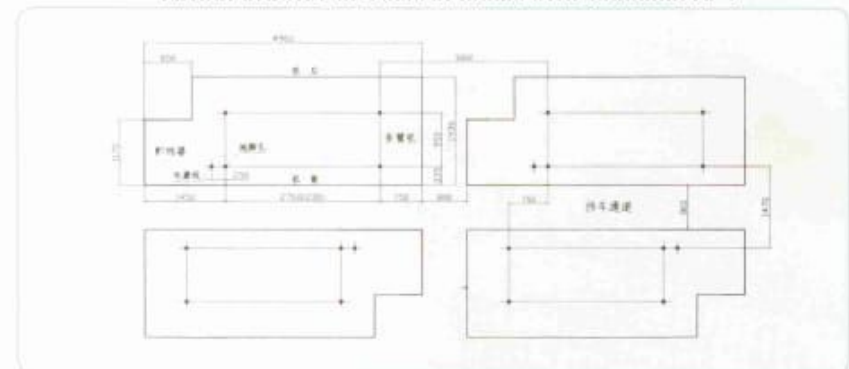
#### Application

This rapier loom is used to weave fabric with crude fibers(cotton,wool,hemp,silk),chemical fiber and blending yarn etc.It is suitable for weaving thick fabrics.

#### Feature

1. Beating system:adopt separating reed base,bilateral cam type beating instead of four-links beating,high increased the beating power
2. Weft insertion system:adopt space crank connecting driver system,transmission device are installed in the closed box with the oiling device,suspended guiding teeth,left weft insertion,join in center,stable weft insertion,low warp broken rate.
3. Transmission device:designed with the shortest transmission route,mostly decreased the transmission spare parts,and the main parts all adopt box type oiling,make the production and repair more easy.
4. Loom frame:Novel and reasonable design,make the production and installation convenient and reliable
5. Outstanding cost-effective :compare with the expensive price of high-speed rapier loom,this machine with about 300 RPM speed and reasonable price and operation cost,it is the ideal loom upgrade from the low speed rapier loom.

#### Layout drawing of 4 sets of looms with 2300mm(90")





## TDJ-711

Innovative Energy-saving Air Jet Loom  
With Independant Air Supply



This product is our company independently developed by the invention of a new type of energy-saving of air-jet loom ( Patent No.: ZL 201210235370.4 ) the loom is equipped with multiple independent air pump in the main transmission shaft, ( don't have to buy expensive centralized air compressor and high energy consumption alone) random linkage, using electronic weft storage, main, auxillary nozzle and a special combination of reed, ( no electromagnetic valve to control the weft insertion ), composed of a plurality of groups of pump according to the angle adjusting the injection time, through continuous jet to weft insertion, the model uses four Linkage Beating-up, electronic or mechanical let-off, take-up machine. The opening mechanism adopts a crank or cam opening opening, weaving some low fabric, energy saving can reach more than 50%.

### Technical parameters

Supply mode: independent type;  
Width: 190, 230, 260, 280, 340;  
Weft Selection: electronic single or double nozzles;  
Motor power: 3.8kw , 4.0kw , 4.5kw , 5.0kw;  
Speed: 400-500rpm;  
Weft insertion: main, auxillary nozzle with a profiled reed, single pump angle adjustment, the electromagnetic valve control;  
Shedding: crank or cam;  
Let-off: mechanical let-off or electronic let-off;  
Take-up: mechanical;  
Selvage: planetary gear;  
Cutter: mechanical;  
Lubrication:oil bath type for the big box, let-off, take-up gear box , the other is manual.

### pneumatic tuck-in



## TDJ-712

Air Jet Loom With bulid-in air compressor



This product is a kind of energy saving and simple independent air jet loom development of the new company, supply air pump is installed on the outer side of the frame, easy installation and maintenance and debugging, simple operation, weft insertion mode is controlled by the electromagnetic valve, the main, auxillary combined nozzle and profiled reed; beating the four Linkage Beating-up, mechanical let-off, mechanical take-up, shedding mechanism adopts a crank or cam shedding, weaving in cheap fabric, energy saving can reach more than 50%. Less investment, quick effect, is the most ideal rapier loom to several existing loom, air-jet loom in the period of transformation models.

### Technical parameters

Air supply mode: independent type;  
Reed space: 170, 190, 210, 230 ( cm );  
Weft selection: electronic single or double nozzles;  
Motor power: 3.8kw , 4.0kw, 4.5kw;  
Speed: 500-600rpm;  
Weft insertion: main, auxillary nozzle with a profiled reed, single pump angle adjustment, the electromagnetic valve control;  
Shedding: crank or cam;  
Let-off: mechanical or electronic ;  
Take up: mechanical ;  
Selvage: planetary gear;  
Cutter: mechanical;  
Lubrication:oil bath type for the big box, let-off, take-up gear box , the other is manual.  
Count range:cotton yarn 8-100s



**TD-737**

Towel papier loom



**Main datas**

Model	TD737
Reed width (cm)	200CM(78"),230cm(90"),260cm(102"),280cm(110")
Rotation speed(r.p.m)	240r.p.m(78")
Weft selection	6,8colors
Yarn count	cotton: 7Ne-60Ne,Wool 12Ne-100Nm, Chemical fabric:100D-650D
Dia. of warp beam	terry $\varnothing$ 800mm or $\varnothing$ 600mm,ground $\varnothing$ 680mm or $\varnothing$ 600mm
Dia. of rolling-up	$\varnothing$ 600mm
Let-off type	up:positive electric let-off,down:electric let-off
Terry raising type	cam type movable reed terry raising
Height of terry (mm)	step less adjustment from 2 to 12 times
Shedding mechanism	upper-placed electronic
Number of heddle frame	16pages
Weft stop	piezoelectric control
Warp stop	2crows electric warp stop
Color select	mechanical color select
Electric control	P.L.C
Motor power(KW)	2.2KW--2.6KW
Weight (kg)	2000-2500
Overall size(LxWxH)	4706x1936x2220mm (230cm /90")



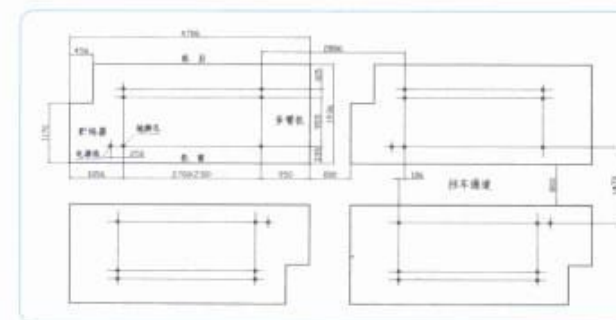
**Application**

This towel loom is used to weave all kinds of spiral satin or small jacquard satin towels for face,tea,bath and floor etc.with the material of cotton,wool and blended yarns,in is especially suitable to weave heavy towel.

**Feature**

1. Adopt the cam with eccentric shaft structure for making terry motion ,it assures the machine having high reliability of making-terry and regulating facility.
2. Thicker weft beating shaft assures enough beating rigidity,it can weaving the wide fabric more than 2800mm.
- 3.The suspension of narrow track design,reduce the orbit of the friction of the warp yarn,reduce the warp broken ratio.The use of high quality carbon fiber rapier head obviously decrease the weft broken and extend the service life of the rapier head.
- 4.The two electromagnets which controlled the terry raising,controlled by technical program which set by electric control system,it can weaving high and low terry.
- 5.With the automatic pick finding device,greatly improve the working efficiency of operators.
6. Adopted centralized oil lubrication device,greatly reduce operator,s work.

**Layout drawing of 4 sets of looms with 2300mm(90")**





**TD-737A**

Towel papier loom



**Application**

This towel loom is used to weave all kinds of spiral satin or small jacquard satin towels for face, tea, bath and floor etc, with the material of cotton, wool and blended yarns, in is especially suitable to weave heavy fabric.

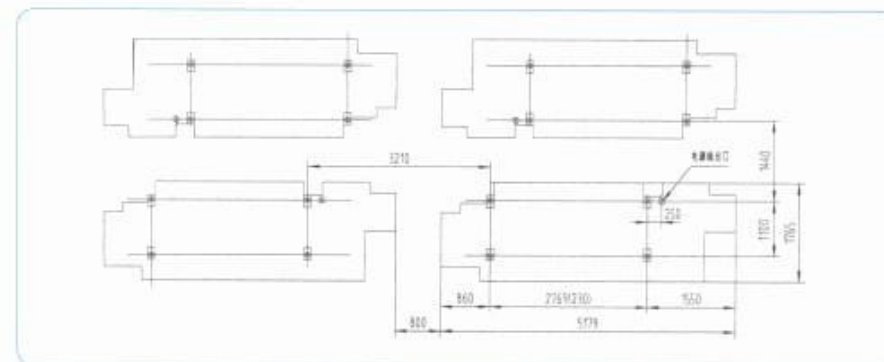
**Feature**

1. Adopt the cam with eccentric shaft structure for making terry motion and replaces the old type of knocking bill motion structure. That assure the machine having high reliability of making-terry and regulating conveniency.
2. Adopts the electron warp let-off and tension detector structure, get the quantity of sending yarn to be even.
3. Adopts the automatic finding weft device, make the take-up motion, roll-up motion, let-up motion and dobbie motion to be synchronous when the machine stops for weft broken. That avoid motion mark and simplify the process of connecting stain.
4. Using short crank arm beating-up motion, increasing greatly the beating-up force during weaving that ensures the enough strength to weave the heavy duty towels.
5. Adopts the short beating-up arm that assure the machine having enough rigidity when weaving heavy duty towels.
6. The heddle frame number can reach 20 to 22 pages. The machine can be installed the electrin weft selection equipment.
7. The dobbie is closed down that can stop the dust getting in the moving elements. The oiling for the moving elements adopts continuous oil bath to replace the handwork oiling. That assure all moving elements in the oil bath at all time.

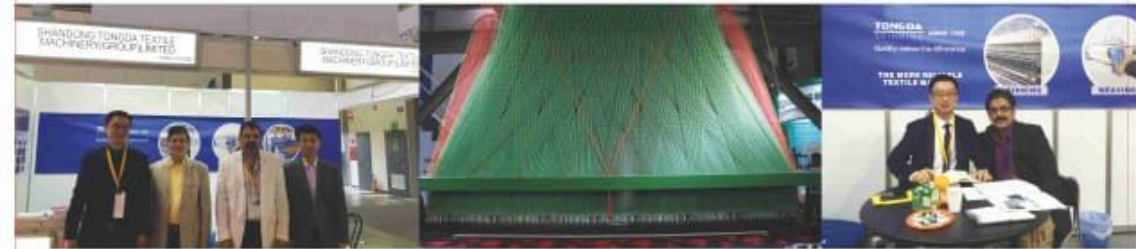
**Main datas**

Model	TD737A
Reed width (cm)	200CM(78"), 230cm(90"), 260cm(102"), 280cm(110")
Rotation speed(r.p.m)	MAX250r.p.m(78")
Weft selection	6, 8 colors
Yarn count	cotton: 7Ne-60Ne, Wool 12Ne-100Nm Chemical fabric: 100D-650D
Dia. of terry beam	terry $\varnothing$ 800mm, ground $\varnothing$ 800mm
Dia. of ground beam	$\varnothing$ 400mm
Let-off type	positive electric let-off
Terry raising type	producing terry by movable reed
Height of terry (mm)	making terry by cam system
Shedding mechanism	upper-placed mechanical dobbyspring reversing(24pages of shaft)
Number of heddle frame	16, 22 pages
Weft stop	piezoelectric control
Warp stop	3crows electric warp stop
Electric control	vertical spindle driving
Motor power(KW)	P.L.C
Weight(kg)	2.5KW--3.2KW
Overall size(LxWxH)	2400-2800
	5200x2120x2500mm (230cm /78") LxWxH

**Layout drawing of 4 sets of looms with 2300mm(90")**



**Quality makes the difference**  
**Your reliable partner**





**TDW-871**

Single Nozzle High-speed Water Jet Loom



**Mainfeature**

TDW871, the single nozzle plain shedding water jet loom, has been overall improved and strengthened from let-off, shedding, take-up, transmission system and the stability, therefore it has the operation capacity of high speed and continuous stability and the advantage of wide applicable sphere. This machine can be equipped with single pump double nozzle free abb choosing system, double pump double nozzle free abb choosing system, double pump triple nozzle free abb choosing system; cam shedding device, dobby shedding device; electronic let-off, electronic take-up.

Optional breadth: 170, 190, 210, 230, 260, 280, 340, 360cm.

Weft insertion rate: Mix 2280 meter per minute

Speed: Mix 1200 RPM (the actual speed depends on the species of the fabric)

The number of heddle: 2, 4, 6, 8 pieces

Cam shedding 10 pieces utmost

Dobby shedding 16 pieces utmost

Power: 2.2 KW, 2.6 KW, 2.8KW, 3.0KW, 3.5KW, 4.0KW, 4.5KW.

Range of weft destiny: 5-60 thread/cm



**TDW-408**

High-speed Heavy Water Jet Loom



**Mainfeature**

TDW-408 series water jet loom is the new model of the company, the frame of the whole machine is enlarged, which expands and the area of support of the beam. Therefore, the stability and aseismicity of the machine are greatly increased. The stability of beating-up is highly enhanced which guarantee the high quality of fabric. The machine has been innovated and improved in the aspects of transmission, cam and shedding, let-off and take-up system, as a consequence, it is quite suitable for the hi-speed and stable weaving of heavy and hi-density fabric. This machine can be equipped with single pump double nozzle (TDW-408B) electronic weft feeder, double pump double nozzle (TDW-408B-2P), double pump triple nozzle (TDW-408C2P) electronic weft feeder; it can be equipped with cam shedding device, dobby shedding device; also the electronic let-off and the electronic take-up.

Optional breadth: 170, 190, 210, 230, 260, 280, 340, 360cm.

Weft insertion rate: Mix 2280 meter per minute

Speed: Mix 1200 RPM (the actual speed depends on the species of the fabric)

The number of heddle: 2, 4, 6, 8 pieces

Cam shedding 10 pieces utmost

Dobby shedding 16 pieces utmost

Power: 2.2 KW, 2.6 KW, 2.8KW, 3.0KW, 3.5KW, 4.0KW, 4.5KW.

Range of weft destiny: 5-60 thread/cm



### Mainfeature

This type of loom frame and beam rigidity is enhanced, the machine has good stability, beating-up mechanism further optimization, structure more reasonable, can use four or six Linkage Beating-up connecting rod. The six connecting rod beating-up, can prolong the time for opening of warp, weft, more suitable for wide loom weaving fabric, broaden the scope of weaving loom.

The opening mechanism of this type of crank optional: opening, cam, electronic dobby, jacquard, with electronic let-off, electronic take-up, variable density of weft knitting; warp stop, double weft electronic length measuring, electronic weft storage, selvage yarn breaking detection, edge detection by catching weft yarn electronic control, make the operation more humane.

Its structure is reasonable: the further optimization of beam structure, change the warp tension sensing more sensitive. After the tension roller bracket installed in the outer side of the frame, which is convenient for installation and repair.

The series of looms due to its high rigid frame structure, suitable for weaving high density, high fine fabric, and a let-off, take-up and each detection unit, are used in electronic control, can effectively reduce the stop block, the mechanical stop, warp, weft weaving defects such as short rates, improve the quality of production.

### Specification

- |  |   |
|--|---|
| 1-Reed space: 150, 170, 190, 230, 280, 340 ( cm );   | 9-Let-off: electronic let-off;  |
| 2-The maximum number of weft insertion: maximum weft insertion;  | 10-Take up: electrical ;  |
| 3-Rate can reach 1235m/min (depending on fabric types);  | 11-Stops: 6 lines of electronic stopping device;  |
| 4-Weft: short fiber: 7 to 60tex ( 80 to 10Ne ) (need additional device if below 10)                      | 12-Weft stop: double weft detection;  |
| 5-Long fiber: 5 to 44tex ( 40 to 400den );   | 13-Weft supply: single color, two-color ,four-color mixed free weft, weft;  |
| 6-The main transmission : use AC starting torque motor direct starting,slow forward and reverse running; | 14-Sevage: leno (rough and plain);  |
| 7-Shedding: crank, cam, electronic dobby, jacquard;  | 15-Electrical control: using programmable computer controller as the core,  |
| 8-Beating-up: bilateral four connecting rod, the six connecting rod beating-up;                          | 16-Can set all kinds of weaving parameters;   |
|  | 17-Lubrication : the big gear, let-off, take-up gear box with the oil bath type lubrication, the other by forced centralized oil supply mode. |
|  | 18-Power: 190cm :2.6kw, 230cm:2.8kw, 280cm:3.7kw  |



### STABLI CAM

#### New type of pressure relief unit

With all pressure adjusting valves located at one place (Patent No. 201220633829.1), it is easy to adjust, loss on air flow reduced, air source saved, and energy consumption reduced.



#### Raising and lowering structures of double rollers

At rolling up, the double roller structure can raise the upper and lower roller at the same time which will take out the fabric together with take-up roller. It is easy, convenient, safe and reliable.



#### High strength frame structure

A strong machine frame has been constructed with box typed wall sheets, square tubes and angle beams, with braces in the middle, support sheets welded on the top and bottom side of the front beams, and solid beating beams



#### New type of rear beam structure

The latest dual real beam moving structure (patent No. 201220635526.3) with swinging connecting rod mounted outside, and since the overall structure is moved downward it is very easy to adjust



**TD-737J**

Electronic jacquard towel loom



**Main datas**

Model	TD737J
Reed width	200CM(78"),230cm(90"),250cm(100")
Speed	200-250r.p.m
Walt selection	8colors
Yarn count	cotton: 7Ne-60Ne,Chemical fabric:100D-450D
Dia. of terry beam	∅ 800mm
Dia. of ground beam	∅ 650mm
Let-off type	up and down warp yarn are both adopt induction types electric let-off
Terry raising type	Terry raising type:actuating motor control terry herght
Height of terry	adjust from 2-12 times by program,it can weave wave tyoe terry
Shedding mechanism	double lift clear shedding
Return type	elastic return
Jacquard shedding height	110mm
Jacquard needle quantity	according to the different electric jacquard type(1480,2688)
Transmission type	vertical spindle driving
Electric control	imported P.L.C
Motor power	3.5KW
Weight	2500-2900kgs
Overall size(LxWxH)	5200x2500x4500mm (230cm model)

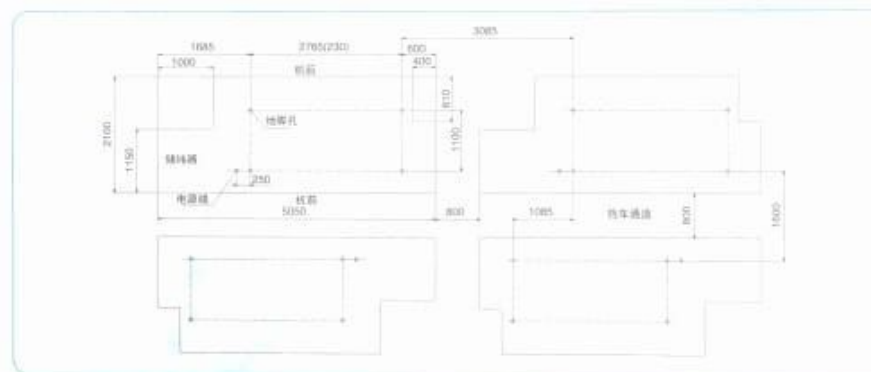
**Application**

This loom is used for weaving all kinds of top grade jacquard towels for face,tea,bath and floor etc.

**Feature**

This model adopt electric let-off,electric rolling-up,electric terry,electric jacquard shedding,adopts actuating motor to control the terry height,It is a advanced jacquard towel loom in China,it can weave wave type terry and other hard-weaving towels.

**Layout drawing of 4 sets of looms with 2300mm(90")**



## TDA-700

High Speed Air Jet Loom

### Man-computer interface design

- 1-Big size touch screen is used, easy for operation. Man-Computer interface is strengthened. It is able to diagnose existing problem on its own, and display the cause of stop.
- 2-The operator is able to change and type in new setting specification on the touch screen.
- 3-Certain specification can also be stored in the computer via memory card.
- 4-If one sets the machine to stop once certain length of cloth is finished, cloth inspection process will be finished smoothly.
- 5-Personal performance of one operator can be analyzed according to production records stored.

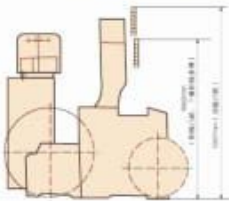


### Shedding mechanism in loom



Different shedding types are available like positive cam shedding and dobby shedding, suitable for weaving plain, stain and twill fabric. The shedding is clearer, wefts pass easily, therefore, production efficiency is increased. Cam gear box is lubricated with oil bath, more stable.

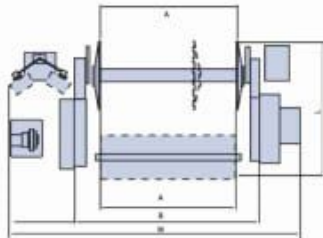
- ① Negative cam shedding: works with 8 pieces of heald frame at most. This cam box is designed with excellent shedding, suitable for running at high speed, also easy to replace with new cam. It is suitable to produce such fabric as plain, twill and satin.
- ② Crank shedding: works with 4 pieces of heald frame, suitable to produce high quality plain fabric.
- ③ Positive cam shedding: works with 8 pieces of heald frame at most, suitable to produce such fabric as plain, twill and satin. It is most mounted on heavy-duty or extra-wide type loom.
- ④ Dobby shedding: working with 16 pieces of heald frame at most, suitable to produce such high value-added fabrics as plain, twill, satin and small jacquard.



### Machine size

总宽度Flange dia.	980
L	1980

分锭数锭 Feed space (mm/英寸)	1900(S)	2100(S)	2300(H)	2500(H)	2650(H)	3400(H)	3600(H)
消极凸轮开口 Negative cam	3380	4150	4390	4683	4	4	4
积极凸轮 Positive cam (STA系列, 1900)	4000	4500	4700	4883	5200	5700	5900
脚踏式积极多锭 Foot-powered double dobby (TA系列, 2000)	4400	4900	4800	5000	5200	5400	6100
A	1900	2100	2300	2500	2650	3400	3600
B	2540	2740	2940	3140	3400	4000	4200



## TDA-708

Air Jet Loom for Medical Gauze



TDA708 is innovated and developed based on existing advanced design to replace shuttle loom which has many shortcomings as low efficiency, high failure rate, complex processes and much labor. This model is suitable to weave 21-40 lines absorbent gauze (sizing free). The frame and supporter bar of high rigidity reduced vibration, adding more to stability. High level of electronic automation system is able to display working efficiency and production volume of each shift. You can also set the machine to auto stop at certain production length. The model is designed with advanced air jet cutter which leaves smooth edges, improving fabric quality.

The adoption of single nozzle electric feeder improves machine-start rate, saving weft. Main transmission parts are lubricated in oil bath, reducing maintenance cost. Air is supplied by double air pump, which reduces cost in comparison with centralized air supply. What's more, this model eliminates weft and yarn rolling and fabric cloth, thus reducing labor cost.

### Optional accessories

Optional accessories:

Take-up: 1. inside take-up (Max. c 520)

2. outside take-up (Max. c 1200)

Let-off: 1. passive let-off

2. mechanical let-off

Beam pipe: 1. shuttle loom | 600 beam pipe with iron pan

2. air jet loom | 800 beam pipe with aluminum

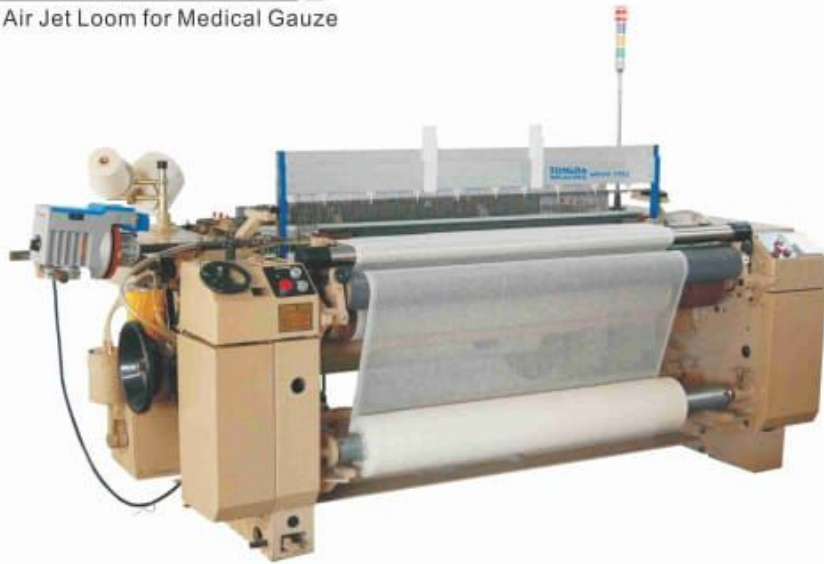


Smooth selvage



**TDA-708**

Air Jet Loom for Medical Gauze



**Main dimensions and specifications:**

1. Reed Space (nominal): 135 150 190 (cm)
2. Feeder: Single nozzle electronic feeder
3. Power: electromagnet brake pan; Motor: 1.1kw for 135cm 150cm, 1.5kw for 190cm
4. Weft insertion: single steel tube nozzle, pipe-shaped reed
5. Shedding: crank opening with two pieces heald frame.
6. Let-off: passive or mechanical
7. Take-up: inside or outside machine body
8. Beating: four shedding lever winding beating
9. Selvage: cloe and rough selvage
10. Running speed: 400-500RPM
11. Weight: 1.3-1.8T
12. Dimensions: 135CM 3050mm\*1540mm  
150CM 3200mm\*1540mm  
190CM 3600mm\*1540mm  
Device width 1300mm for outside take-up



Selvage device



Independent air supply device

**TDA-710**

Smart Air Jet Loom

This model is developed based on water jet loom, with transmission system, mechanical let-off, mechanical take-up, shedding section and frame body the same as water jet loom. The differences are with beating section, weft insertion by centralized air jet and human-machine interface displace system. The successful development of the model reduces user equipment cost, which means simple fabrics can be made by low-cost machine. It is suitable to weave cotton, polyester and blend fabric.



**Main dimensions and specifications:**

- 1 Reed Space (nominal): 190, 210, 230, 280, 340(cm)
2. Weft selection: mechanical or electric feeder (Single or double nozzle electric feeder)
3. Motor: 1.8KW, 2.2KW, 2.8KW, 3.5KW. Power: electromagnet brake pan;
4. Running speed: 500-700RPM
5. Weft insertion method: main nozzle+ auxiliary nozzle, use unusual reed, electromagnetic control
6. Shedding : crank, cam doobby
7. Let-off: mechanical
8. Selvage: planetary gear
9. Cutter: mechanical
10. Auto-stop on broken weft, 2 optical feeler; broken warp: 6 lines electric contact bar; reason for auto will be displayed on screen. 4 color led light; others: auto stop on broken twist and trash yarns.



## TD-736A

Speed rapier loom



### Special design for India market

#### Main datas

Model	TD736A
Reed width (cm)	190cm,210cm,230cm,260cm,350cm
Max speed	300RPM(190cm)
Color selection	6,8colors
Yarn range	cotton: 7Ne-60Ne,Wool 12Ne-100Nm, Chemical fabric:100D-650D
Diameter of beam	∅ 800cm , ∅ 680cm, ∅ 600mm
Diameter of rolling-up	∅ 600mm
Let off/take up	Electronic/continuous
Shedding	mechanical(electronic)dobby,cam, electronic jacquard.
Weft stop	piezoelectric ceramic sensor control weft stop
Warp stop	6rows electric warp stop
Color selection	mechanical or electronic
Electric system	electronic board
Control system	PLC
Power	2.2kw
Weight	3200kg-3500kg
Overall size	4706x1936x2220cm(230/90,..)

## MAKE WEAVING SUCCESS



#### Application

This rapier loom is used to weave fabric with crude fibers(cotton,wool,hemp,silk),chemical fiber and blending yarn etc.It is suitable for weaving thick fabrics.

#### Feature

1. Beating system:adopt separating reed base,bilateral cam type beating instead of four-links beating,high increased the beating power
2. Weft insertion system:adopt space crank connecting driver system,transmission device are installed in the closed box with the oiling device,suspended guiding teeth,left weft insertion,join in center,stable weft insertion,low warp broken rate.
3. Transmission device:designed with the shortest transmission route,mostly decreased the transmission spare parts,and the main parts all adopt box type oiling,make the production and repair more easy.
4. Loom frame:Novel and reasonable design,make the production and installation convenient and reliable
5. Outstanding cost-effective :compare with the expensive price of high-speed rapier loom,this machine with about 300 RPM speed and reasonable price and operation cost,it is the ideal loom upgrade from the low speed rapier loom.

#### Layout drawing of 4 sets of looms with 2300mm(90")

