

CATALOGUE

# Dyeing Jigger



# ITG Group in numbers

**+50 years**

Of experience in the  
Textile Industry

**7**

National Divisions

**+50 sales  
agents**

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and the Middle East

**+100  
employees**

Worldwide

**+10,000**

Textile Products

**+2,000  
customers**

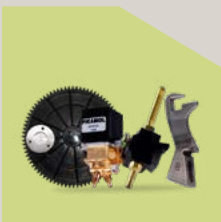
Worldwide

**5**

Business Lines

## Bussines Lines

ITG Group operates in different business lines, which include: spare parts for weaving and circular knitting, textile accessories, and new and semi-new machines for circular knitting and weaving.



Spare Part &  
Accessories For  
Weaving



Spare Parts &  
Accessories For  
Circular Knitting



Buy-Sell Second-Hand  
Machinery



Textil  
Machinery



Braiding &  
High-speed Label  
Looms

## Weaving Success Together

ITG Group, every thread of our International team always at your service.

# HD618

## Type High Temperature High Pressure Dye Jigger



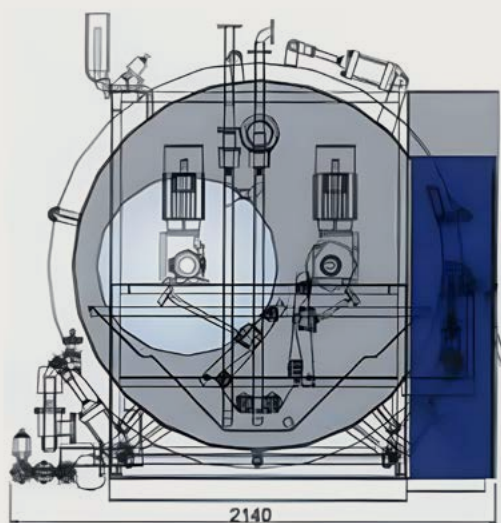
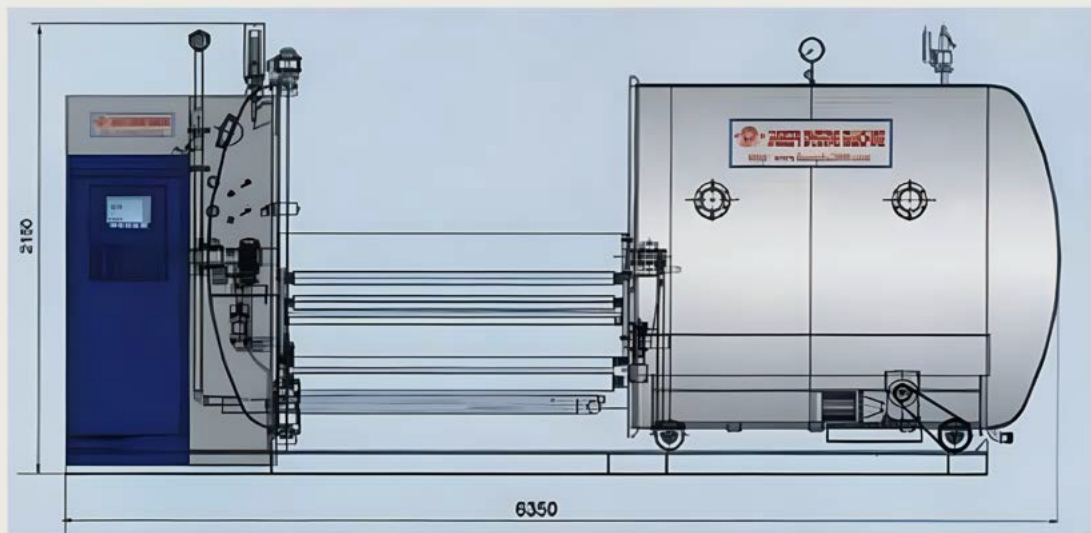
Mainly for open with nylon, spandex, silk, cotton, polyester, flax and blended fabric in desizing, bleaching, scouring, dyeing, etc. It can be widely used in the dyeing and printing industry to meet the requirement of small batches and different kinds.

### TECHNICAL FEATURES

- Advanced AC frequency invert driving, PLC control and data communication technology are used.
- Truly direct fabric surface tension, linear speed inspection and closed loop control.
- Toe touch screen technology is utilized. Excellent human-computer interface dialogue function.
- Auto temperature control, auto direction reversing, auto record cycles, auto stop and fabric swing function.
- The dye liquor circulation system of the machine can make the temperature of the dye liquor same and make the dyestuffs even distributed. Equipped with filtering device to prevent the blockage of the piping.
- Heating and thermal insulation device ensures the temperature rising speed to promote the production efficiency.
- The entire machine is equipped with auxiliary devices such as overhead illumination lamp, breakage alarm lamp, etc. Safe operation, easy maintenance.
- Water drain valve, air chimney and fabric delivery cross arm are controlled pneunatically.
- The main components of this machine are imported to ensure the stability and reliability of this machine.
- Full automatic control of the production can realize various kinds of technology combination.
- The cover opening is flexible and convenient. The body can slide on the guiding rail smoothly.







中文操作界面



## MAIN TECHNICAL PARAMETER

Diameter of main roller		Φ245 - 325mm
Max Diameter of cloth roll		Φ800 / Φ1000/ Φ1200mm
Mechanical Width		1600 - 3600mm
Max Working fabric width		1400-3400mm
Adjustable fabric rate		0 - 130m/min
Tension of fabrics		0-60kg
Max. Working temperature		135° C
Overall dimension ( LxWxH)	HO618-800	(*2+3400)*2100*2200
	HD618-1000	(*2+3450)*2400*2500
	HD618-1200	(*2+3500)*2700*2800

## Type AC Variable Frequency Control Dye Jigger

NSWR series AC variable frequency control dye jigger is the kind of dye jigger with the biggest cloth rolling diameter and the widest cloth. It is self-designed and developed by our factory based on absorption of advanced technology of various dye jiggers from Japan, Korea, Italy, etc. And in combination with the practical situation of users, it is the essential dyeing equipment in the dyeing and printing industry. The equipment is applicable for a variety of fabrics in pre and post-treatment and dyeing process at a normal temperature. It combines desizing, scouring, bleaching and dyeing processes and can conform to development of small batch and diversified products in dyeing and printing industry. Besides, it has features of advanced design, reasonable structure, wide adaptability, excellent performance, simple and convenient maintenance, safe and reliable operation.



### MAIN FEATURES

- AC frequency converted transmission, PLC & Digital communication technique.
- Real direct detection for cloth surface tension, linear speed, the closed loop control.
- Touch Screen technique, good human-machine interface for communication.
- Temperature auto-control, auto-reverse, auto-record cycles, auto-change direction, auto-stop and auto-swing function.
- Liquor circulating system can maintain uniform temperature of dye liquor and homogeneous dye distribution; liquor filter device is fixed in the circulating system to avoid pipes being clogged.
- A top heating and heat-insulating apparatus is installed for temperature rise rate and increasing productivity.
- Auxiliary devices such as top illuminating light, warning light, emergency stop lever are equipped to provide safe operation and easy maintenance.
- Discharge valve, gas shaft, delivery cross arm are pneumatically controlled.
- All key parts are imported to ensure the performance or the machine stable and reliable.
- Fully automatic control for the production procession, easily compile multi-technology combinations.

### MAIN TECHNICAL PARAMETER

Diameter of main roller	Φ245 - 400mm	
Max Diameter of cloth roll	Φ1000 / Φ1200/ Φ1400 / Φ1500mm	
Mechanical Width	1600 - 3800mm	
Max Working fabric width	1400-3600mm	
Adjustable fabric rate	0 - 130m/min	
Tension of fabrics	0-60kg	
Max. Working temperature	100° C	
Overall dimension ( LxWxH)	NSWR1000	(1650)*1900*2100
	NSWR1200	(1650)*2100*2200
	NSWR1400	(1850)*2800*2300
	NSWR1500	(1850)*2900*2350

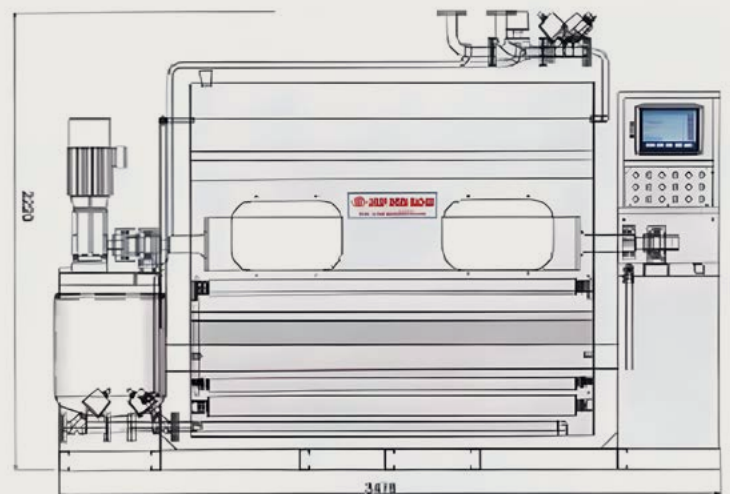
## Type Automatic Normal Temperature Atmospheric Pressure Dye Jigger

### CONTROL PANEL BOARD

The working process is able to be made or changed easily through the panel computer. It is always showed on the monitor and automatically controlled and performed as programmed.

### DRIVING DEVICE

The speed of the rollers are controlled accurately by the vector drive. The tension is precisely managed by torque control system without using any additional brake.



### MAIN TECHNICAL PARAMETER

Diameter of main roller	Φ225 - 325mm	
Max Diameter of cloth roll	Φ600 - 1400	
Mechanical Width	1600 - 3800mm	
Max Working fabric width	1400-3600mm	
Adjustable fabric rate	0 - 130m/min	
Tension of fabrics	0-60kg (Continuously adjunting)	
Amount of dislocation	0 - 140mm	
Automatic dislocation amount	10-15mm per 2-10 seconds	
Loading capacity	2-30 kw	
Overall dimension ( LxWxH)	HDC1000	(1600)*2050*2000
	HDC1100	(1700)*2200*2100

## Series High Temperature High Pressure Automatic Dye Jigger

### MAIN FEATURES

NGR is one of dyeing equipment manufactured by our company. It is suitable for various synthetic fabric, cotton and linen fabric to be dye with distributed, sulfur, vat, direct and reactive dyestuffs, scoured, soaped and cleansed at a constant rate and under a constant tension. It has the features of advanced design, reasonable structure, superior performance, sale and reliable operation.



### MAIN TECHNICAL PARAMETER

Diameter of main roller	Φ225 - 325mm	
Max Diameter of cloth roll	Φ680 / Φ800 / Φ1000 / Φ1200	
Mechanical Width	1600 - 3600mm	
Max Working fabric width	1400-3400mm	
Adjustable fabric rate	0 - 130m/min	
Tension of fabrics	0-60kg	
Max. working temperature	135°	
Overall dimension ( LxWxH)	NGR680	(2700)*2900*2300
	NGR 800	(2800)*3100*2500
	NGR1000	(2800)*3300*2700
	NGR1200	(3100)*3700*2800

# NSWR 680

## Type AC Variable Frequency Control Jigger

### MAIN FEATURES

The jigger has the features of automatically controlled constant line speed, constant tension, automatic reversing, automatic recording cycles, automatic stopping and automatic temperature control. It is applicable to small batches and diversified fabrics such as nylon, natural silk, cotton fabric in the process of open width dyeing.



MAIN TECHNICAL PARAMETER	
Diameter of main roller	Φ220 mm
Max Diameter of cloth roll	Φ680
Mechanical Width	1600 - 3600mm
Max Working fabric width	1400-3400mm
Adjustable fabric rate	0 - 130m/min
Tension of fabrics	0-60kg
Max. working temperature	100
NSWR Overall dimension ( LxWxH)	(1500)*1266*1850



## Type Normal Temperature Atmospheric Pressure Dual-Inverter Dye Jigger

### APPLICATION

HDR is suitable for desizing, bleaching and dyeing various kinds of fabric with automatic controlled alternate method. Such as cotton, linen-cotton blended fiber, chemical blended fabric, nylon, urethane elastic fiber, especially luxury nylon elastic fabric.

### TECHNICAL FEATURES

This equipment has the features of reasonable structure, easy operation, full function, stable performance, high capacity, convenient maintenance, etc. It achieves the accuracy control in technique of full-automatic control, constant speed, constant tension, automatic reversing, and automatic recording.



1. Constant speed, constant control of tension.
- 2 Automatic reciprocating winding, automatic recording.
3. The function of speeding up, slowing down, tension increase, tension reduction.
4. Balanced swinging function, prevent the liquid accumulating too heavy.
5. Optional fabric centering function, fabric feeding and outlet function.
6. Automatic control of dye vat temperature, optional heating modes, the highest temperature can achieve 108°, especially suitable for luxury nylon elastic fabric.
7. Dyeing liquid circulating control.
8. Process parameter settings, image operation.

### MAIN TECHNICAL PARAMETER

Diameter of main roller	Φ300 - 325 mm
Max Diameter of cloth roll	Φ900 - 1100 mm
Mechanical Width	1800 - 2400mm
Max Working fabric width	1600-2200mm
Adjustable fabric rate	0 - 130m/min
Tension of fabrics	0-60kg
Max. working temperature	108°C
NSWR Overall dimension ( LxWxH)	(1830)*1830*2100

# NSWR300

## Computer Frequency Conversion Sample Jigger Dyeing Machine

### APPLICATION

NSWR300 Jig dyeing machine is suitable for cotton, linen, chemical blended fabric, urethane elastic fiber, etc. It is used in boiling, desizing, bleaching, dyeing under automatic control with alternate method.

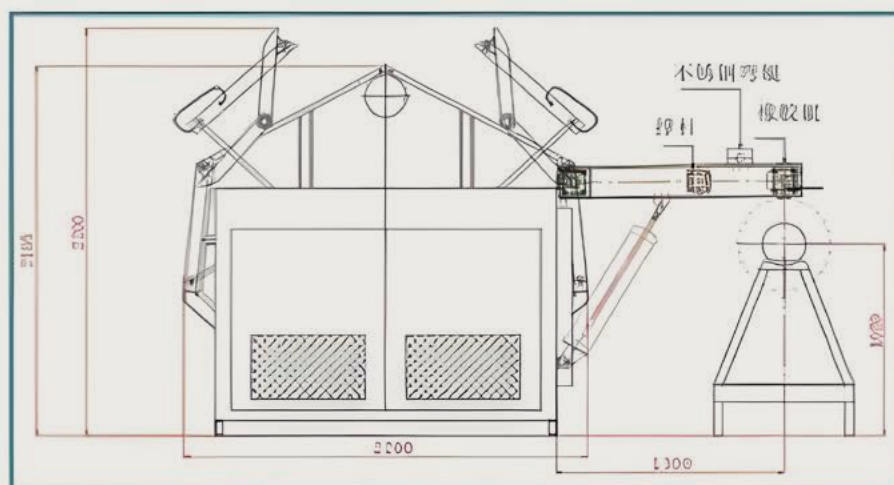


### MICROCOMPUTER FREQUENCY CONVERSION COMMUNICATION TECHNOLOGY

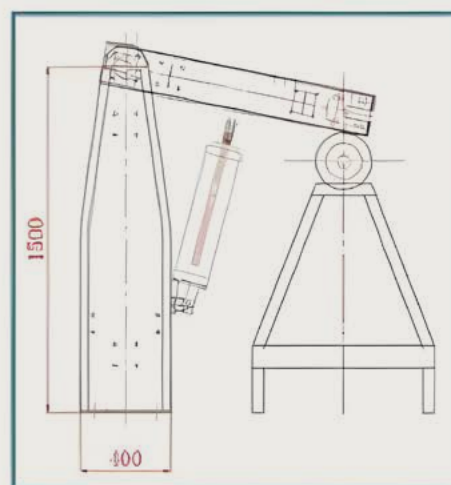
1. Constant speed, constant control of tension.
- 2 Automatic reciprocating winding, automatic recording
3. The function of speeding up, slowing down, tension increase, tension reduction.
4. Balanced swinging function, prevent the liquid accumulating too heavy
5. Direct and indirect cycle automatic heating
6. Dyeing liquid circulation, charging liquid level control.

### TECHNICAL FEATURES

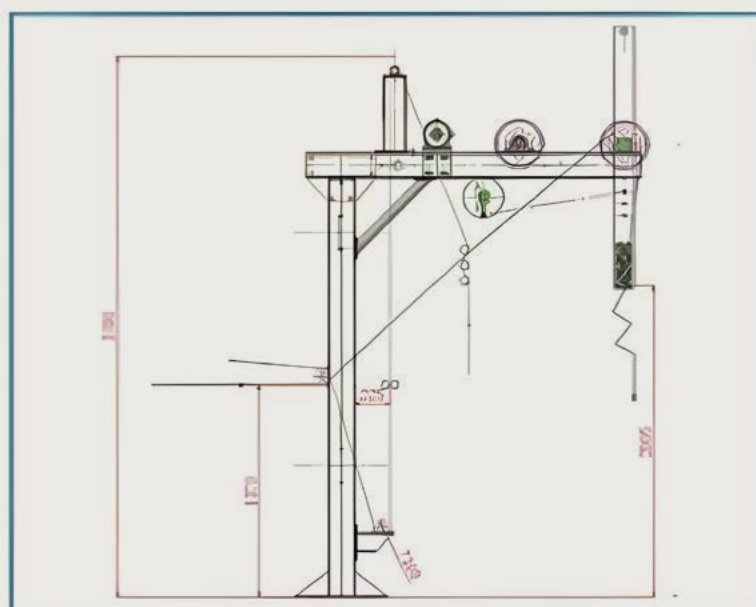
1. Working speed: 0-130m/min, tension range: 0.90kg
2. Installed capacity: 5kw, input voltage/frequency: 380v/50Hz
3. The compress air inlet pressure: 5–8 bar, steam inlet pressure: 4-6 kg



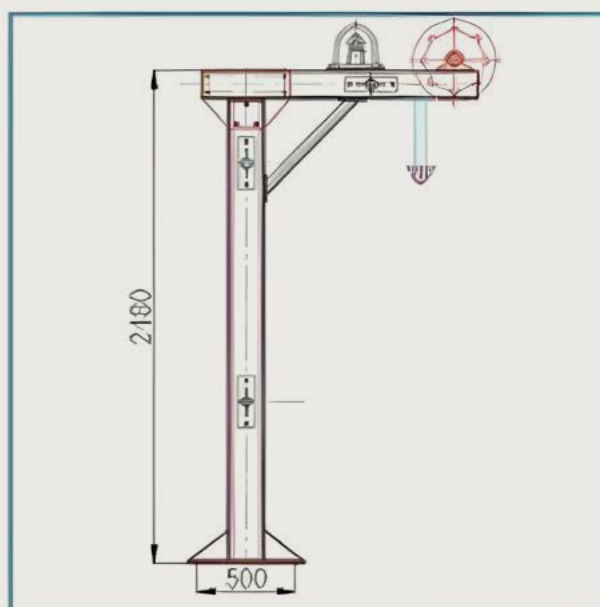
随机打卷出布 (至 A 型架) 常温 1000-1200 标配



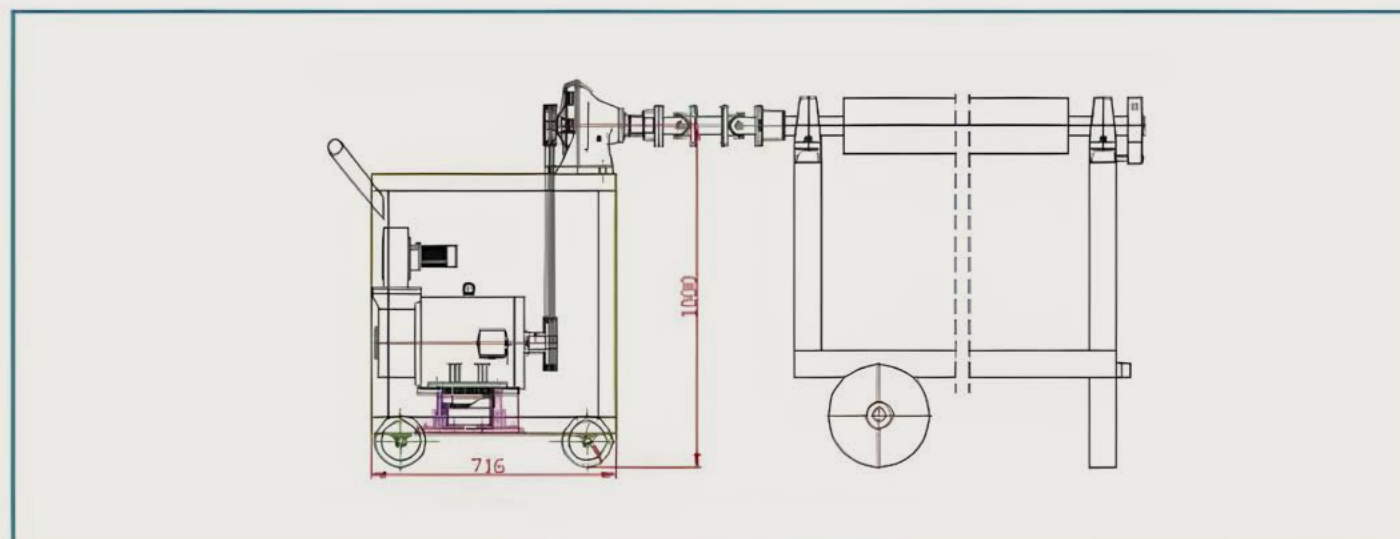
大卷装出布 (至 A 型架) 高温选用



摆动折叠落布 (至布车) 常温高温选用



单独六角辊落布 (至布车)



移动方向出布机 (至 A 型架)

# NSWR300

## Series Spray Type Hank Yarn Dyeing Machine

### PRODUCT FEATURES

1. It is suitable for bleaching, refining, dyeing, washing and post-treating various kinds of yarns, such as single spun yarn, rayon, mercerized cotton yarn, spun silk, pure silk, fancy yarn, cashmere, etc.
2. The special designed low energy consumption and great flow rate pump improves the anti-cavitation ability and solve the problem that other traditional machine spraying less amount of water under high temperatures affects dyeing quality.
3. The durable new weir flow type spray pipes, the dyeing pipes and yarn rotating pipes are combined together, which avoid twisting and knotting. It can be poured easily after dyeing, and it has low loss rate.
4. The water adjuster with special design can adjust water according to the quantity of dyeing yarns, yarn count and sorts.
5. Compact structure, bath ratio (1:10~15).



### TECHNICAL PARAMETER

- Maximum work temperature: 98°C
- Temperature rising rate: about 5°C/min (according to the steam pressure 6kg/cm<sup>2</sup>)
- Temperature dropping rate: about 2°C /min (according to the cooling water pressure 3kg/cm<sup>2</sup>)



# HDS

## Series Spray Type Hank Yarn Dyeing Machine

### MACHINE STRUCTURE

1. The body of machine and spray pipes are made of high quality corrosion resistant stainless steel.
2. High-performance stainless steel mixed-flow pump with mechanical seal device.
3. Dyestuff barrel is equipped stirring, heating, backflowing, cleaning, and feeding device.
4. Reliable automatic program controller.
5. Water level display.
6. It is convenient to add yarns, take out yarns and clean the spray pipes.
7. Beautiful and sale visible windows.



### SPECIFICATION

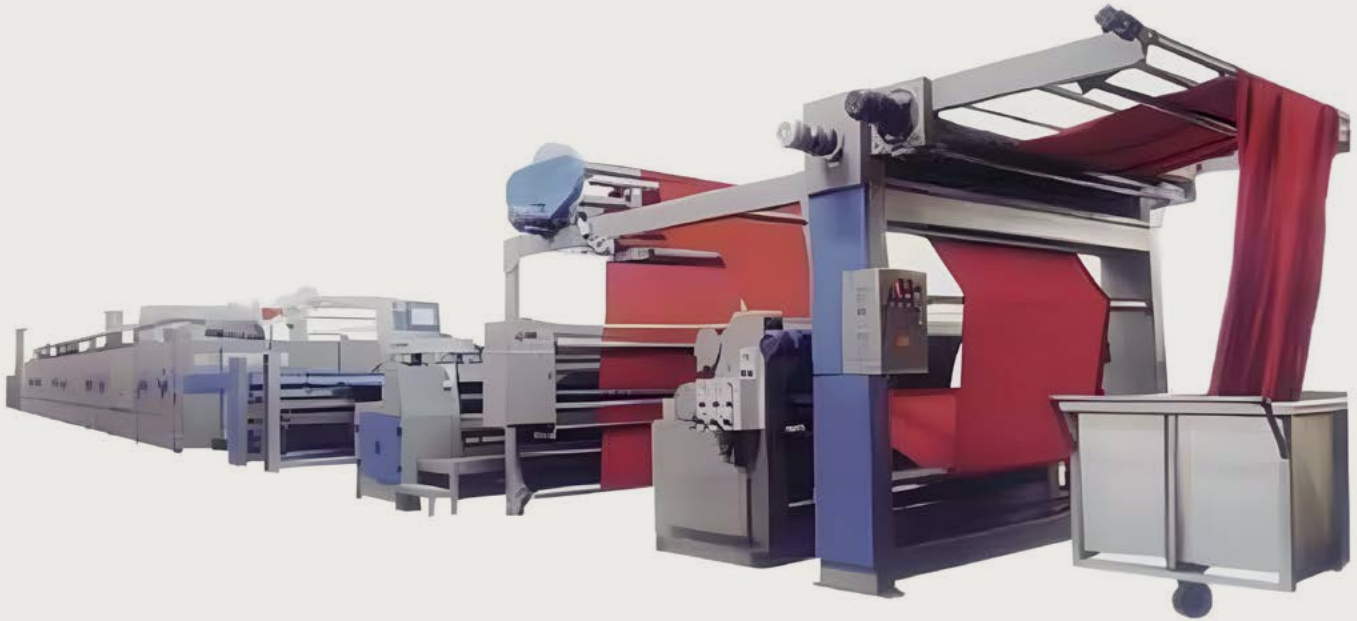
Model	Carrying Capacity Kg	General Power Kw	External Dimension			Weight Kg
			L(mm)	W(mm)	H(mm)	
HDS-1/2	3	1.1	1310	1950	2020	820
HDS-1	7	1.1	1540	1950	2020	1200
HDS-2	14	1.5	1570	2500	2020	1400
HDS-4	28	3	2130	2500	2020	1800
HDS-6	42	4	2580	2550	2020	2400
HDS-10	70	5.5	3740	2550	2020	3000
HDS-20	140	11	6740	2600	2120	4500
HDS-30	210	15	9700	2750	2220	5600
HDS-40	280	22	12850	2750	2220	6800
HDS-60	420	37	18810	2960	2320	11340
HDS-80	560	45	24900	2960	2320	13800

# HD998E

## Series Stenter Setting Machine

### PRODUCT FEATURES

This machine is mainly used for stentering, setting, finishing the cotton fabric, poly-cotton fabric, polyester fabric, elastic fabric after desizing, mercerizing.



### MAIN SPECIFICATIONS

1. Machine direction: left-hand or right-hand machine.
2. Machine nominal width: 1800-3600mm
3. Mechanical speed: 10-180m/min  
(adjustable, according to chamber qty and fabric type)
4. Heat source: natural gas / heat-transfer oil / electricity / steam
5. Temperature: 60°C- 220°C

### TECHNOLOGICAL PROCESS

1. Open-width feeding fabric
2. TM10 fabric tensioning device
3. Infrared centering device
4. Photoelectric weft straightener
5. Rectifying deviation, expanding, spreading device
6. Screw thread spreading roller
7. Front overfeeding device
8. Three-finger curling edge
9. Infrared ray rack detecting edge
10. Pinning on
11. One set of conditioning box
12. Chambers setting
13. One group of cold wind cooling
14. Double roller pinning off
15. Back overfeeding
16. Two pieces of cold water roller for cooling
17. Open-width swinging doffing.

## Type Cloth Inspecting and Rolling Machine

### PRODUCT FEATURES

1. It is suitable for rolling and inspecting fabric, such as woven fabric, knitted fabric, warp knitting, synthetic leather, low gram weight non-woven fabric, etc.
2. Tension is controlled by dual frequency converter, and it can be adjusted discretionarily (even be adjusted to tension free).
3. Adopt Taiwan hydraulic system and infrared ray photoelectric automatic edge alignment.
4. Use the domestic most advanced electronic measure length control instrument

### 5. The machine can assemble:

1. Electronic scale
2. ERP defect acquisition system and printing equipment.
3. Metal locator
4. Automatic misalignment function
5. Automatic stop if there is no fabric
6. Coiling differential gear
7. Color code edge alignment
8. Computer connector
9. Automatic cut-off knife

### TECHNICAL PARAMETER

1. Suitable width: 1800mm~3600mm
2. Coiling diameter:  $\geq 600\text{mm}$
3. The speed of rolling and inspecting: 0~100m/min
4. Deviation rectifier type: hydraulic
5. Main motor power: 0.75/0.4~2.2/0.75(KW)
6. Total power: 3KW~4KW
7. Tension control: Dual frequency converter



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