



### **COMPANY INTRODUCTION**

Shanghai Tiran is a commercial and industrial company dedicated to providing the most modern, efficient and solid solutions in machinery and production processes in the field of nonwovens.

The knowledge and experience, acquired for more than 10 years, in the construction and start-up of complete production lines guarantee our quality, for that we have a highly qualified technical team, capable of responding and solving the most demanding challenges .

Shanghai Tiran strengthens the vision of becoming a key partner for our clients in finding effective, energy efficient, sustainable and technologically advanced production solutions to meet the highest requirements and standards.

On behalf of our technical and commercial staff and especially our Management, we want to thank you for the opportunity to send you the following commercial proposal:

### **PROJECT INTRODUCTION**

By means of this document we bring you our proposal to supply them with a high efficiency and high-quality Slitting, opening, edge gumming and heat setting machine for circular knitted fabric.

The proposed equipment is made up of sections that contain the latest advances and developments coming from the permanent experimentation and research applied by in the construction of machinery.

### **INDEX**

## USAGE

The machine is suitable for the gumming and setting of knitted fabric, flat fabric, Oxford fabric and nylon silk.

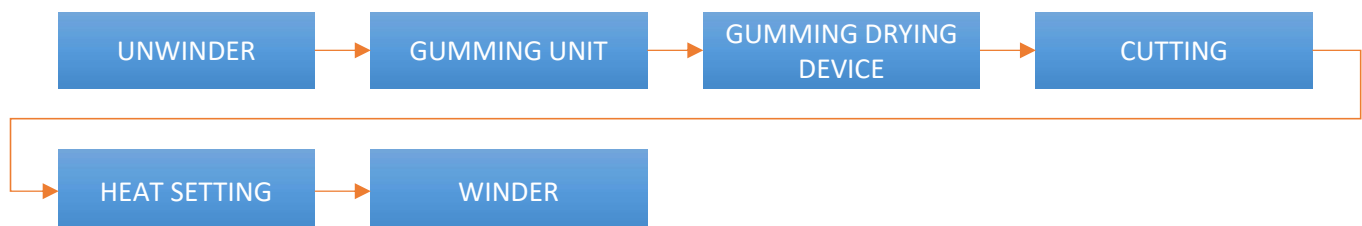
## CHARACTERISTICS

1. Frequency conversion drive
2. The drive controlled by the proportional linkage substrate controls each drive so that each drive can start at the same time and simultaneously run synchronously with acceleration and deceleration
3. Oven with electric three-way valve, through the temperature measuring rod and temperature controller to achieve automatic control of oven temperature;
4. BPC automatic edge tracker is used at the inlet of the oven to prevent product from Off- the needle;
5. Furnace track is HT-40 casting, groove precision machining;
6. Slitting fabric with a positive coating paste, positive slitting fabric style is easy for the workers operation

## THE MAIN TECHNICAL PARAMETERS

1. Roller width : 1800mm
2. Production speed : 0~60m/min
3. Heat source : 240000kcal/hr.
4. The total power of the machine: 60kw
5. Oven length : 15 meters

## PROCESS

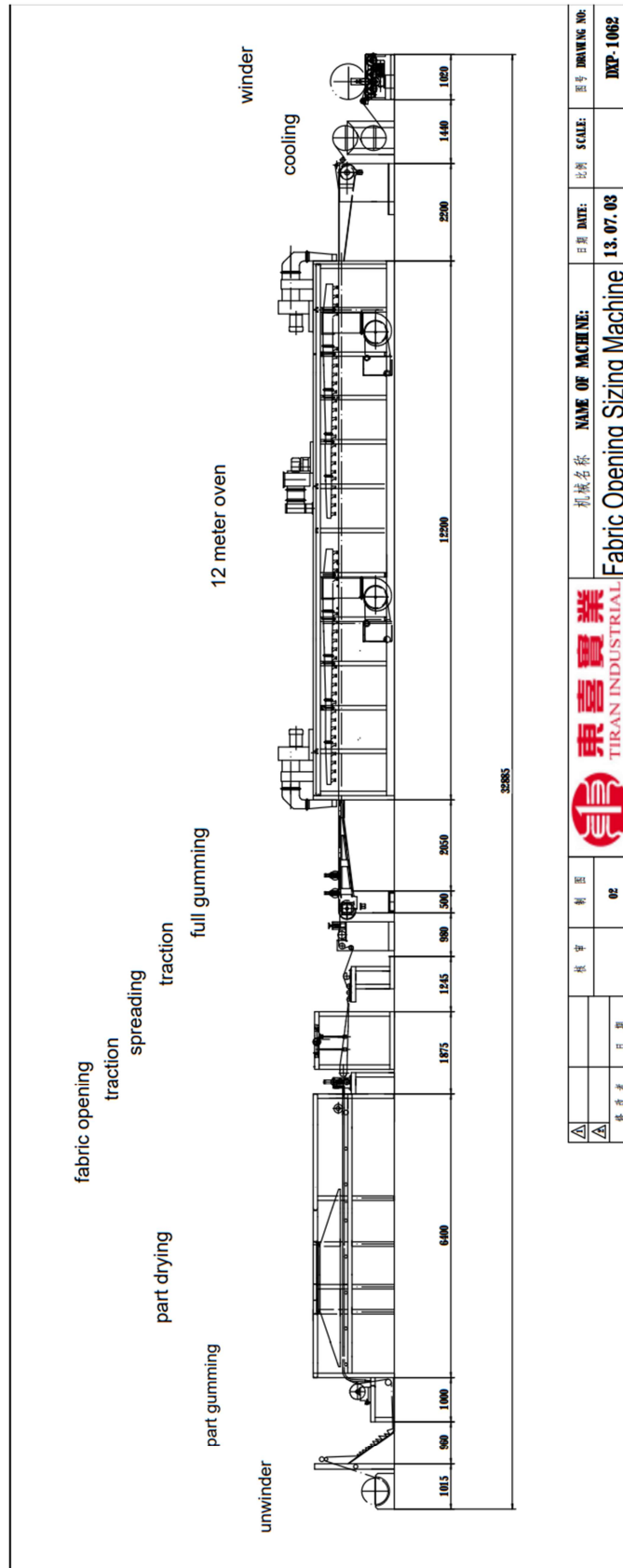


OPENING MACHINE FOR CIRCULAR KNITTED FABRIC

March 2022

Nº: 1098

STRUCTURE



△	修改者	日期	姓名	制图	02	比例	SCALE:	图号	DRAWING NO:		
△	修改者	日期	姓名	制图	02	比例	SCALE:	图号	DRAWING NO:		
日期			DATE:			日期			DATE:		
13.07.03			13.07.03			13.07.03			13.07.03		
机械名称			NAME OF MACHINE:			机械名称			NAME OF MACHINE:		
Fabric Opening Sizing Machine			Fabric Opening Sizing Machine			Fabric Opening Sizing Machine			Fabric Opening Sizing Machine		

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**MAIN SPECIFICATIONS**
**A- FABRIC INPUT**

1. The frame is made of welded shaped steel	1 set
2. discharge slot	1 set
3. material block board	2 sets
4. Φ60 guide roller	8 pcs
5. 6240 bearing	16 sets
6. discharge support roller (built-in 6204 bearing)	8 sets

**B- ACCUMULATOR**

1. The frame is made of welded shaped steel	
2. Φ120 rubber traction roller	1 pcs
3. Φ120 chrome-plated roller	1 pcs
4. Φ125 export roller	1pcs
5. Stainless steel storage trough	1 set
6. Φ63×75 cylinder	2 sets
7. UCP206 bearing	2 sets
8. UCT206 bearing	2 sets
9. 1.1kw frequency conversion speed regulating motor and reducer	1 set

**C- PASTE, DRY AND FABRIC SLITTING**

1. The frame is made of welded shaped steel	1 set
2. Frequency synchronization paste (1.5KW-4 with 1# cycloidal)	1set
3. stainless steel fabric Tension rack	1 set
4. Φ75 guide roller	4 groups
5. Φ120 traction rubber roller	6 groups
6. Φ120 clip traction roller, with the active form	1 group
7. UCT206 bearing	2 sets
8. UCF206 bearing	2 sets
9. 4kw motor and reducer(frequency synchronization speed control)	1 set
10. heat exchanger (heating-oil)	1 set
11. 3.6# hot air heater and hot air duct	1 group
12. 1.1KW-2 rag group (manual edge correction)	1 group
13. stainless steel fabric-expand rack	1 group
14. Stainless steel wire roller (with gear)	2 groups
15. 1.5KW-4 motor (frequency control, 1# cycloid)	1 group

**MAIN SPECIFICATIONS**
**D-. GUMMING GROUP**

1. The frame is made of shaped steel and A3 plate welded	
2. Φ86 guide roller	6 pcs
3. Φ127 aluminum sheet unrolling roller	1 pcs
4. Φ slitting and gumming roller(80 mesh) 350×90×5mm	1pcs
5. scraper mechanism	1 set
6. stainless steel slurry tank mechanism	1 set
7. Scraper knife fine-tuning mechanism	1 set
8. UCT206 bearing; UCF206 bearing	4 sets
9. 2.2kw motor and reducer; (frequency control)	1set

**E-. 12,2M NEEDLE PLATE HEAT SETTING MACHINE**

1. Needle plate: 17 needles per piece	1800 pieces
2. Horizontal chain track: HT20~40 casting track, grooved precision machining	1 set
3. Wear plate: on the inner side of chain track	1 set
4. Track support roller: roller and holder	13 groups
5. Track support beams: 10 # international channel steel	6pcs
6. automatic side-to-side device	1 group
7. Needle plate chain tension adjusting device	2 groups
8. Φ200 steel brush roller with fixed holder	4 groups
9. Φ89 chrome-plated roller with bearing	2 pcs
10. safety cover	1 set
11. bearings and couplings	
12. Type: Heat medium heating, hot air circulation type	5 groups
13. each zone is equipped with automatic temperature control group	1 group
14. The skeleton is made of 100×43 shaped steel	
15. insulation board:light panel structure, 100mm thermal insulation material using rock wool	
16. hot air nozzle: 0.8mmt galvanized sheet (upper feeding air)	3 groups
17. Heat exchanger: fin heat pipe type, steel pipe structure, windshield, hook type	5 groups
18. Blower: 5.5kw multi-wing	5 groups
19. exhaust fan: 3kw multi-wing	3 groups
20. air feeding pipe, exhaust pipe, air hood, are composed of 0.8mm T galvanized sheet	1 set
21. Activated door on both sides of drying box: Same as insulation board structure	4 sets
22. width adjustment motor reducer	1 set
23. wide and narrow adjustment worm gear reducer	6 sets
24. width adjustment encoder	4 pcs
25. electric three-way valve	3 sets
26. temperature measuring rod	3 sets

**MAIN SPECIFICATIONS**

## F- SURFACE WINDING GROUP:

- |   |        |
|---|--------|
| 1. The frame is made of welded shaped steel   |        |
| 2. $\Phi$ 268 surface winder roller           | 2 pcs  |
| 3. $\Phi$ 100 guide roller                    | 2pcs   |
| 4. $\Phi$ 127 aluminum sheet unrolling roller | 1pcs   |
| 5. UCP210 bearing                             | 4 sets |
| 6. UCP206 bearing                             | 4 sets |
| 7. 3kw motor and reducer                      | 1 set  |

## G- ELECTRICAL CONTROL PART:

- |  |        |
|--|--------|
| 1. main control cabinet  | 1 set  |
| 2. Remote operation box  | 3 sets |
| 3. the whole machine - frequency conversion drive, unified adjustment of the proportion base plate |        |

REFERENCE PICTURES

