

Unit Price of Model FM-2400 SPUN BONDED NON-WOVEN PRODUCTION LINE:

FOB Ningbo Port US\$ 4,12,000.00 per set

Terms of Packing: Wooden Cases Packing

Terms of Delivery: 90 days upon receipt of the prepayment

Terms of Payment: T/T 30% of total amount as deposit, The balance 70% T/T BEFORE SHIPMENT

The above quotation is valid within 30 days.

2.4M PP SPUNBOND NONWOVEN PRODUCTION LINE





I . Application:

This Produce line is filament polypropylene fiber spunbonded nonwoven fabrics equipment. Its raw material is polypropylene (PP), take the principle of spinning man-made fibers, during polymer filature, continuous filament is extended into fiber net, which is finished by mechanical hot pressing, The machine assembly we adopt is now advanced veneer integer slot air flow draw technology, the whole process from material feeding to cloth output is automatic control, short production flow, high working efficiency.

The nonwoven fabrics we produce has high strength, good softness, innocuity, bacterium-proof, corrosion resistance, high-level draw strength and elongation rate, They are widely used for dress, decoration materials, medical sanitation materials, daily life products and in the industrials, agriculture fields. In additional, this production line can produce nonwoven fabrics of different color, different grams, different lines according to users' requirements.

Lines on nonwoven fabrics: dots, cross line, straight lines, weight:12-200g/m²

Raw material: Polypropylene chips

(melt index:20-40g/10min, melt point:166°C, ash content: < 0.15-0.25%)

II . Process flow:

Feeding(suction,dosing and mixing) → Melt and extruding(with recycle extruder)→ Filtering→ Metering→ Spinning→ Quenching→ Air drawing→ Forming→ Calendering→ Winding→ Slitting→ Product

III Product specifications:

Installed power: 500KVA

Web width: 2400mm

Max. winding diameter: ϕ 1000mm

Annual output: 1800tons/year (40g/m²)

Single filament titer: \leq 2.5 denier

Web weight: 12-200g/m²

Max. mechanical speed: 0-120m/min (Process speed:10-100m/min)

Electric consume: 800KWH/ton

IV. Workers and power

Number of workers: 3-4 persons

External power supply: 315KVA

Water system: 0.2Mpa

V . Workshop requirement

L×W×H: 20×14×12.5m

VI Description of machine

1. material feeding system

Max. feeding capacity: 500kg/h

Max. filling of Master batch: 10%

2. Extruder

Diameter of screw: ϕ 150mm

L/D: 30:1

Material: 38CrMoALA

Surface treatment: Nitriding and Polishing

Rotary speed: 20-70rpm

No. of heating zones: 6

Heater: Cast aluminum

Driving motor: Z4 90kw DC motor

3. Edge recycle extruder

Diameter of screw: ϕ 105mm

L/D:15:1

Material: 38CrMoALA

Surface treatment: Nitriding and Polishing

Rotary speed: 20-80rpm

No. of heating zones:3

Driving motor: 15kw AC motor

4. Filter

Filter form: double-cylinder continuous switching

Equipment of Slurry coat: Forced seal structure

Filter area: 3.5m²×2

Suitable medium: Polymer melt

Rated flow: 500-700kg/h

Max. working pressure: 25Mpa

Max. working temperature: 310°C

Heating system: Heat conduction oil cyclic heating

Filtration precision: 50 micron

Size of filter elements: ϕ 35×487mm .19pcs single cylinder
measurement pump

measurement capacity: 250cc/r

Rotation speed: 0-40rpm

Motor power: 5.5kw

5. Spinning machine

Material of spinning head: 42CrMo
Attemperator: Heat conduction oil cyclic
Power of smoking machine:5.5kw

6. Spinneret

Material: SUS431
Size: 2710×216mm,
Aperture: 45s

7. Cross air blow Unit

Adopts Industrial air-conditioner quenching system
Power of air blower: 45kw

8. Drawing unit

Adopts blow suction and stretching polypropylene filament yarn
Power of suction blower: 30kw

9. Electric heater

Heat the conduction oil acquire constant temperature
Power: 48kw×2sets, 60kw×1set

10. Calcinator

Heater adopts stainless steel heating pipe
Max. temperature: 550°C

11. Ultrasonic cleaning machine

Cleaning mode: underfloor
Power of ultrasonic transmitter : 2400Wx2
Size of Internal groove: 3000×300×250mm

12. Web former

Normal process speed: 10-100m/min
Motor power: 7.5kw DC motor

13. Calender

Size of roller: ϕ 460×2850mm
Working width: 2750mm
Product: \geq 2400mm
Roller hardness
Engraved roller: HRC58
Plain roller: HRC60
Process speed: 10-100m/min
Transmission power:22kw, DC motor

14. Winder

Process speed: 10-120m/min
Working width: 2400mm
Max. winding diameter: 1000mm
Roller changer: automatic moving knife
Motor power: 5.5kw

15. Slitter

Max. mechanical speed: 300m/min
 Working width: 2400mm
 Motor power:4kw

16. Refrigerating machinery

Refrigerating output: ≤ 35kw

17. Electric control

SIEMENS PLC
 10.4 inch touch screen
 Inverter: FUJI(JAPAN)
 AC contactor: Schneider(FRANCE)
 Temperature control box: RKC

VII Other equipments

Cooling tower	1set
Electric Hoist	1 set
Distribution panel	1set
Spinneret	1set
Climatic conditional cabinet	1set
Air compressor	1set
Pump	1set
Professional tools	1set

VIII Spare parts

Dismantling tools for screw	1set
Heat band of screw	2sets
Platinum resistance	3pcs
Electric equipment (low voltage)	several pcs
Filter screen of spinneret	10pcs
Web curtain	1pc (9X2.05m)
Filter O-rings	several pcs

IX Buyer's need to prepare the following thing:

Air pipe, water pipe, oil pipe and some related Moisture and heat preservation material

Air compressor pipe

Cable and cable tray

Water pool: 40m³

Electric balance: 0-200g

Normal tools: 1set

Lubricating oil and heat-transfer oil

Electric welding machine, gas cutting tools

Hoist: 15t (used for temporarily erection)

Hydraulic car: 3t

Chain hoist: 3t(2sets)

(Note: item IX are the things need buyer to prepare it, if anything change, the supplier will notify buyer)