

JINGCHENG INDIA

Unit Price of Model FM-3200 SPUN BONDED NON-WOVEN PRODUCTION LINE:

FOB Ningbo Port **US\$ 550,000.00 per set**

3.2M PP SPUNBOND NONWOVEN PRODUCTION LINE



□. **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: 10-200g/m²

Raw material: Polypropylene chips

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

□. **Process flow:**

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

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□ Product specifications:

Installed power: 500KVA

Web width: 3200mm

Max. winding diameter: ϕ 1000mm

Annual output: 2400tons (40g/m²)

Single filament titer: \leq 2.5 denier

Web weight: 10-200g/m²

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

Electric consume: 900KWH(for 1ton product)

□. Workers and power

Number of workers: 3-4persons

External power supply: 315KVA

Water system: 0.2Mpa

□. Workshop

L×W×H: 20×14×12.5m

□ Description of machine

1. Dosing and mixing system Max.

feeding capacity: 500kg/h Max.

filling of Master batch: 10%

2. Extruder

Diameter of screw: ϕ 170mm

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 110kw DC motor

3. Edge recycle extruder

Diameter of screw: ϕ 120mm

L/D:15:1

Material: 38CrMoALA

Surface treatment: Nitriding and Polishing

Rotary speed: 20-80rpm

No. of heating zones: 3

Heater: Cast aluminum

Driving motor: 18kw AC motor

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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□
Heating system: Heat conduction oil cyclic heating
Filtration precision: 50μm
Size of filter elements: φ35×487mm .19pcs in one cylinder
Metering pump
Metering capacity: 150cc/Rx2PCS
Rotary 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: 3510×216mm,
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: 45kw

9. Electric heater

Heat the conduction oil acquire constant temperature
Power: 48kw×2sets 60kwX1set

10. Calcinator

Heater adopts stainless steel heating pipe
Max. temperature: 550□

11. Ultrasonic cleaning machine

Cleaning mode: underfloor
Power: 2400Wx2sets
Size of Internal groove: 3800×300×250mm

12. Web former

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

13. Calender

Size of roller: φ460×3650mm
Working width: 3550mm
Product: ≥3200mm
Roller hardness
Engraved roller: HRC58
Plain roller: HRC60
Process speed: 10-100m/min
Transmission power:22kw, DC motor

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14. Winder

Process speed: 10-120m/min
Working width: 3200mm
Max. winding diameter: 1000mm
Roller changer: automatic fly knife
Motor power: 5.5kw

15. Slitter

Max. mechanical speed: 300m/min
Working width: 3200mm
Motor power: 4kw

16. Refrigerating machinery

Refrigerating output: ≤ 35 kw

17. Electric control

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

Other equipments

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

Buyer's supply

Air duct, water pipe, oil pipe and insulation
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)