

JINGCHENG INDIA

Unit Price of Model **FM-1600** SPUN BONDED NON-WOVEN PRODUCTION LINE:

US\$2,90,000.00 per set

- 1.. **Packing:** Wooden/open Cases Packing
2. **Terms of Delivery:** 120 days upon receipt of the prepayment
The above quotation is valid within 30 days.
- 3.VAT extra
4. Cost including erection. Boarding and lodging at buyers expense.

1.6M PP SPUNBOND NONWOVEN PRODUCTION LINE



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□ . **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

□ **Product specifications:**

Installed power: 500KVA

Web width: 1600mm

Max. winding diameter: ϕ 1000mm

Annual output: 1500tons (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: 700KWH(for 1ton product)

□ . **Workers and power**

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Number of workers: 3-4persons
External power supply: 315KVA
Water system: 0.2Mpa

□ . **Workshop**

L×W×H: 18×10×11.5m

□ **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 130mm

L/D: 30:1

Max. extruding capacity: 350kg/hr

Material: 38CrMoALA

Surface treatment: Nitriding and Polishing

Rotary speed: 20-70rpm

No. of heating zones: 6

Heater: Cast aluminum

Driving motor: Z4 75kw DC motor

3. Edge recycle extruder

Diameter of screw: ϕ 135mm

L/D:15:1

Material: 38CrMoALA

Surface treatment: Nitriding and Polishing

Rotary speed: 20-80rpm

No. of heating zones: 4

Heater: Cast aluminum

Driving motor: 15kw AC motor

4. Filter

Filter form: double-cylinder continuous switching

Equipment of Slurry coat: Forced seal structure

Filter area: $2.5\text{m}^2 \times 2$

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: $50\mu\text{m}$

Size of filter elements: ϕ 35×487mm .13pcs in one cylinder

Metering pump

Metering capacity: 200cc/r

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:3kw

6. Spinneret

Material: SUS431

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Size: 1910×216mm,

Aperture: 45s

7. Cross air blow Unit

Adopts Industrial air-conditioner quenching system

Power of air blower: 30kw

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×3sets

10. Calcinator

Heater adopts stainless steel heating pipe

Max. temperature: 550□

11. Ultrasonic cleaning machine

Cleaning mode: underfloor

Power: 2400w

Size of Internal groove: 2200×300×250mm

12. Web former

Normal process speed: 10-100m/min

Motor power: 7.5kw DC motor

13. Calender

Size of roller: ϕ 420×2050mm

Working width: 1980mm

Product: \geq 1600mm

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: 1600mm

Max. winding diameter: 1000mm

Roller changer: automatic fly knife

Motor power: 5.5kw

15. Slitter

Max. mechanical speed: 300m/min

Working width: 1600mm

Motor power: 4kw

16. Refrigerating machinery

Refrigerating output: \leq 35kw

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

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Electric Hoist	1T
Air storage tank	1set
Distribution panel	1set
Spinneret	1set
Climatic conditional cabinet	1set
Air compressor	1set
Pump	1set
Professional tools	1set

Spare parts

Dismantling tools for screw	1set
Heat circle of screw	2sets(4pcs)
Platinum resistance	3pcs
Electric equipment (low voltage)	several pcs
Filter screen of spinneret	10pcs
Conveyor belt	1pc
Filter O-rings	several pcs

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)