

JINGCHENG INDIA

Unit Price of Model FM – 1800 SUPN BONDED NON-
WOVEN PRODUCTION LINE:

US\$3,20,000.00 per set FOB China

2. Terms of Packing: Wooden Cases Packing
 3. Terms of Delivery: 90 days upon receipt of the prepayment
- The above quotation is valid within 30 days.

1.8 M 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°C, ash content: °C 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: 1850mm

Max. winding diameter: ϕ 1000mm

Annual output: 1800tons (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 150mm
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 105mm
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: Candle Filter
Equipment of Slurry coat: Forced seal structure
Filter area: 2.5m²×2
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 μ 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×2sets
10. Calcinator
Heater adopts stainless steel heating pipe
Max. temperature: 550°C
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: 2080mm
Product: \geq 1850mm
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: 1850mm
Max. winding diameter: 1000mm
Roller changer: automatic fly knife
Motor power: 5.5kw
15. Slitter
Max. mechanical speed: 300m/min
Working width: 1850mm
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

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Cooling tower	1set
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)