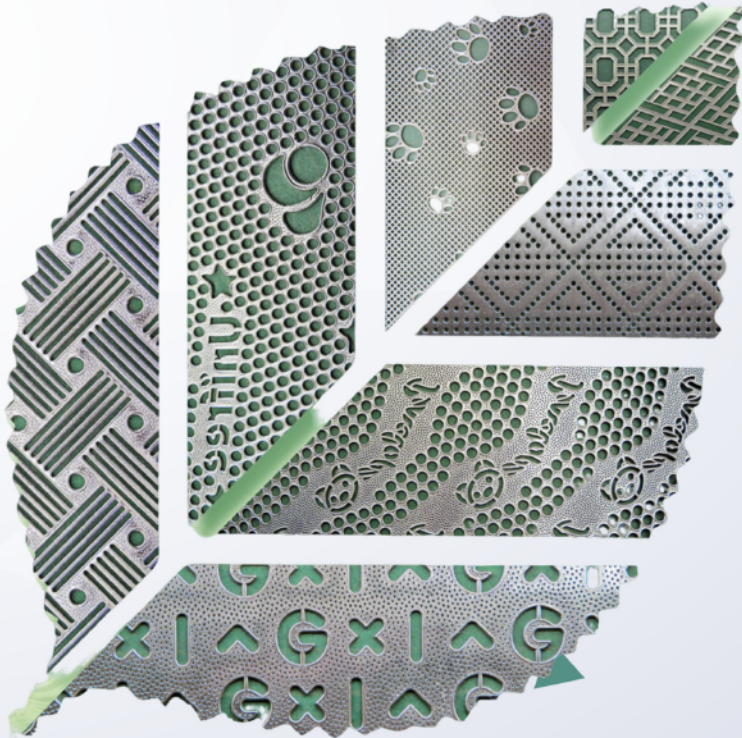




ECOLACE



Ecolace Technology Company Ltd.

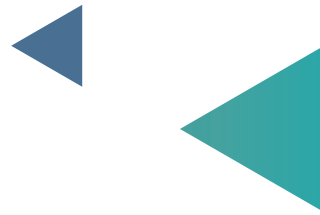
ABOUT ECOLACE

Ecolace Technology Company Ltd, located at China, is the profound cutting-edge know how advice in the nonwoven industry since the 1990s. We are proficient specialize in providing comprehensive solutions for spunlace nonwoven production, offering high-quality machinery spare parts, auxiliary equipment, converting machinery, and precision testing instruments.

Our product range covers every stage of production, from fiber opening to finished product conversion, ensuring enhanced efficiency, reduced downtime, and superior product quality for our clients. By collaborating with top-tier Chinese manufacturers, we deliver reliable, customized, and cost-effective solutions tailored to meet the diverse needs of the global nonwoven market.

Committed to technological excellence and customer success, we combine decades of expertise with cutting-edge innovation to drive sustainable growth and long-term partnerships in the industry.

CONTENTS



01	Spare Parts for Nonwoven Machinery	01
	(1) For opening and blending Machineries	01
	(2) For web forming machineries	01
	(3) For spunlace machineries	03
	(4) For dryers	06
	(5) For winding and slitting machineries	08

02	Auxiliary Equipment	09
	(1) Water treatment for spunlace production	09
	(2) Spare parts of water circulation & filtration systems	12
	(3) Application: Jet strip & filter cleaning- related products	14

03	Converting Machinery	16
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04	Testing Instrument	18
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Series 1 - Spare Parts for Nonwoven Machinery

1. For opening and blending equipment



Needle Lattice

Application

Used in opening equipment for fiber blending and feeding in nonwoven production lines.

Features

- High-strength needle design ensures efficient fiber opening and blending
- Durable alloy construction with excellent wear resistance
- Adjustable needle density for different fiber processing requirements
- Smooth operation with minimal fiber damage and energy consumption
- Easy installation and maintenance with standardized mounting system

2. For carding machines



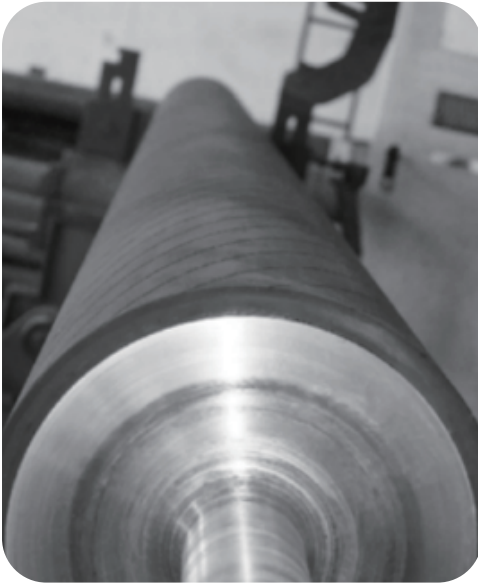
Carding Belt

Application

Component of carding machines for fiber web formation in spunlace production lines.

Features

- Smooth fiber contact surface ensures minimal web marks and easy stripping
- Superior fiber support index guarantees uniform web formation
- Lightweight design enables easy transportation and installation
- Compatible with high-speed production lines and major equipment brands



Carbon Fiber Roller

Application

Function as guide rollers in high-speed and wide-width nonwoven, film, and paper production lines.

Features

- High-strength and lightweight design using Japanese imported carbon fiber materials
- Excellent corrosion resistance to acids and alkalis
- Anti-static surface treatment prevents fiber adhesion
- Low thermal deformation coefficient ensures dimensional stability
- Compatible with high-speed production lines and major equipment brands



Suction Cylinder (WID Cylinder)

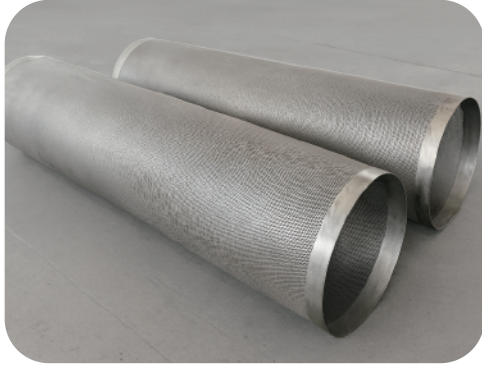
Application

Function as fiber web transfer between carding and spunlace units, ensuring smooth and tension-free material

Features

- Precision microporous structure supports stable fiber web control
- Smooth surface prevents fiber adhesion and wrapping
- Corrosion-resistant nickel material ensures long service life
- Enables seamless transition between carding and hydroentanglement processes
- Compatible with high-speed production lines and major equipment brands

3. For spunlace equipment



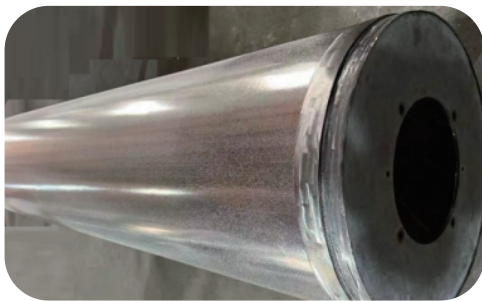
Spunlace Basic Drum

Application

Core component in spunlace units.

Features

- Precision oblique seam welding technology enhances structural integrity
- Customizable surface mesh compatible with nickel/stainless screens
- Reduces downtime with quick screen replacement and easy maintenance
- Universally compatible with major equipment brands (Truetzschler, Andritz, Hi-Tech, Feilong, etc.)



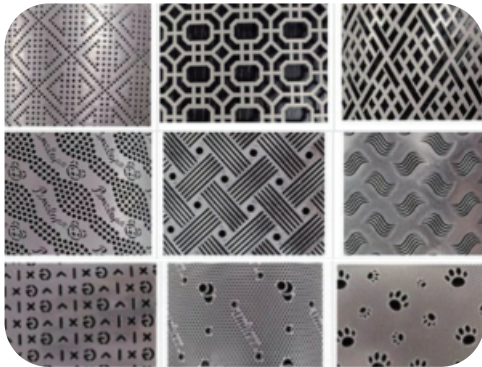
Spunlace Drums (Nickel Screen & Stainless Steel Screen)

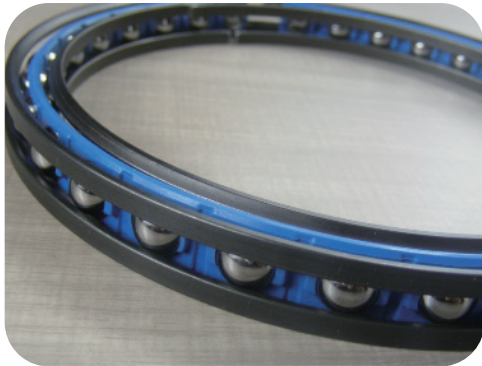
Application

Core component for fabric hydroentanglement and pattern formation in nonwoven production

Features

- Available in nickel, stainless steel and polyester mesh materials
- Customizable single/multi-layer structures (pearl/EF/22 Mesh patterns)
- High-pressure resistant composite construction
- Precision engineering ensures highly efficient, energy-saving, and stable operation
- Compatible with major spunlace equipment brands including Truetzschler, Andritz, Hi-tech, and Feilong, etc.





Wirerace Bearing

Application

Function as in heavy-duty rotating equipment for precise motion control and high load support.

Features

- Unique circular wire race four-point contact ball structure
- Superior corrosion resistance and high rotational accuracy
- Lighter weight with higher impact load capacity than traditional bearings
- Minimal maintenance requirements with easy installation

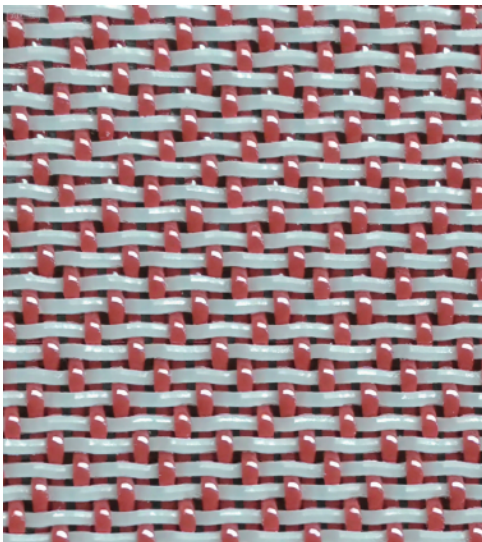
Spunlace Belt

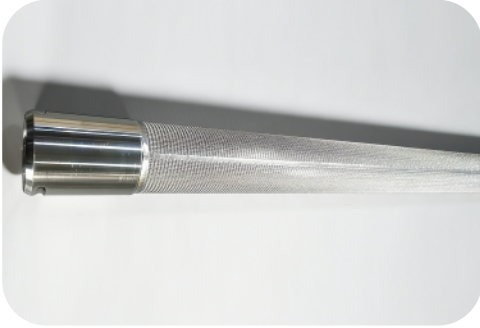
Application

Function as forming fabric and conveyor belt in various spunlace nonwoven production lines.

Features

- Smooth fiber contact surface minimizes web marks and enables easy release
- Excellent dewatering capacity ensures efficient water removal
- Superior fiber support index guarantees uniform web formation
- Lightweight design facilitates transportation and installation
- Good permeability with high temperature and abrasion resistance
- Compatible with major spunlace equipment brands including Truetzschler, Andritz, Hi-tech, and Feilong, etc.





Application

For jetheads of spunlace machinery

Features

- Uniform filtering gap ensures precision and stability
- Easy backwash cleaning with durable sintered mesh structure
- High temperature and pressure resistance for demanding conditions
- Argon arc welding provides aesthetic and robust construction
- Reusable design with extended service life

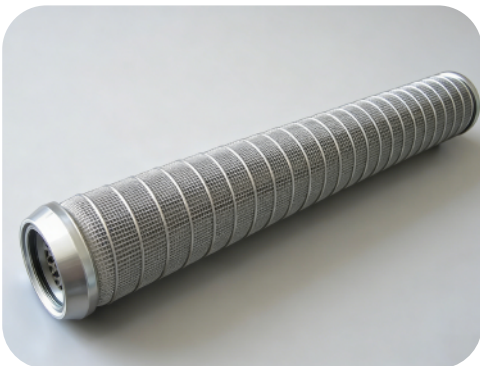
Safety Filter

Application

Final filtration protection for water circulation systems in spunlace production lines

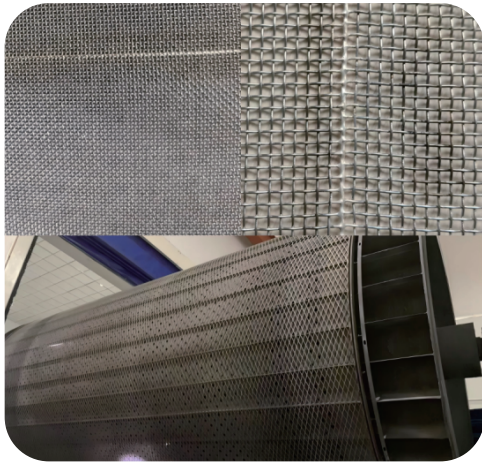
Features

- Multi-layer sintered mesh with internal support frame ensures structural stability
- Folded technology increases filtration area and efficiency
- High-pressure resistant with no deformation at binding points
- Corrosion-resistant material with easy cleaning and removal
- Provides reliable protection for domestic spunlace production



4. For dryers

Stainless Steel Wire Mesh for Dryer



Application

Component at the drum of dryer

Features

- High-temperature resistant stainless steel ensures durability
- Uniform mesh structure provides optimal airflow and heat distribution
- Multiple joint techniques available to meet different client needs
- Anti-clogging design enables easy cleaning and maintenance
- Precision engineering guarantees stable operation and energy efficiency
- Compatible with major dryer equipment brands including Truetzschler, Andritz, Hi-tech, and Feilong, etc.

Rubber Roller

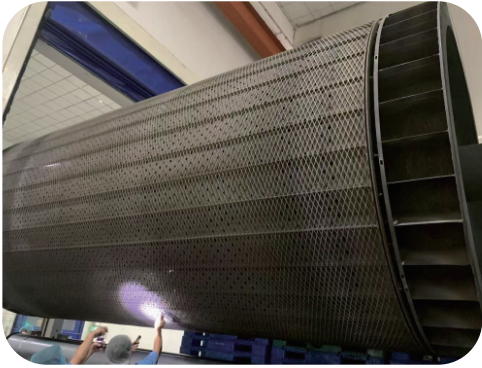


Application

Function as material conveying, guiding and processing in nonwoven, paper, film and industrial production.

Features

- Multiple surface treatments (herringbone/smooth/conductive) for various applications
- Excellent wear and temperature resistance for extended service life
- Anti-static or conductive options available for special requirements
- Precise guidance ensures minimal material deformation and damage
- Easy installation and maintenance with standardized mounting systems



Wire Mesh Replacement Service

Application

Professional replacement service for dryer wire mesh in spunlace nonwoven production lines

Features

- Compatible with major dryer brands (Truetzschler, Andritz, Hengtian, Feilong, etc.)
- Quick response provides internal oven replacement of new wire mesh
- Professional technical team with rich experience
- Reduces downtime and extends equipment life



Aramid - guiding Rope

Application

Component of dryer machines

Features

- Made of high-strength aramid fiber without wax coating
- Excellent heat resistance and durability under high temperature
- Maintains stable performance without stretching or deformation
- Easy to install and replace with long service life

5. For winding and slitting machines

Spare Parts for Nonwoven Machinery

Auxiliary Equipment

Converting Machinery

Test Equipment for Nonwoven Fabric

Air Shaft



Application

Function as winding and unwinding nonwoven materials in production lines

Features

- Customizable design based on equipment length, width and specific requirements
- Uniform expansion with high grip strength for secure core holding
- Quick inflation/deflation system enables efficient material changes
- Compatible with various core sizes

Top Knife and Bottom Knife



Application

Function as precision slitting of nonwoven fabrics in converting processes

Features

- Made from imported high-speed steel with forging process
- Processed through Taiwan imported heat treatment furnaces
- High-precision machining centers and CNC grinding equipment
- Maintains stability without deformation during high-speed operation
- Ensures ultra-long service life and consistent cutting performance

Series 2 - Auxiliary Equipmen

1. For water circulation.& filtration system for spunlace production



Gravity Filter Unit

Application

Function as efficient filtration and recycling of white water in spunlace production lines

Features

- The screen does not need support
- Self-driven screen rotation requires no external power
- Quick and easy filter screen replacement
- Enables reuse of white water, heat energy, chemicals and fibers
- Continuous operation even during system fluctuations
- No motor required for operation
- Large white water treatment capacity

High-Efficiency Shallow Air Flotation Device

Application

Function as white water treatment in spunlace production lines, effectively removing suspended solids, oils, and colloids while enabling water and heat recovery.

Features

- Static water conditions with efficient vertical flotation of suspended particles
- Shallow tank design (0.4-0.5m depth) significantly improves separation efficiency
- Short hydraulic retention time (6-10 minutes) increases treatment rate by 10-15%
- High removal rates: 85-95% for fibers, over 90% for suspended solids, oils, and colloids
- Saves 10-20% coagulant compared to traditional systems
- Low operating costs with optional self-flowing water intake
- Compact design with small footprint and easy operation



Flat Flow Air Flotation Device



Application

Function as wastewater treatment in nonwoven production, pulp fiber recovery, dyeing/bleaching wastewater, oily water separation, and drinking/industrial water purification.

Features

- Efficient removal of impurities: 60-70% COD, 80-90% suspended solids/fibers
- Micro-bubble adsorption enables effective pollutant flotation
- Scraping equipment automatically removes surface scum
- Handles various wastewater types with high treatment efficiency
- Reduces oil content to below 10mg/L in refinery wastewater

Sand Filtration System



Application

Function as mechanical purification of spunlace circulating water to remove suspended solids and short cellulose fibers.

Features

- Multi-layer quartz sand filtration with precision particle size grading
- Fully automated PLC control with pneumatic valves for backwashing
- Efficient air/water mixed backwashing reduces water consumption
- Uniform bubble distribution during air washing for thorough cleaning
- Compact flower plate design prevents filter material leakage



Metal Filter

Application

Function as pre-filtration in spunlace production water circulation systems to intercept large particles and reduce downstream filter load.

Features

- Wire-wound wedge structure efficiently intercepts particles $>20\mu\text{m}$
- Reusable metal filter element (316L material) with easy cleaning
- High flow capacity ($25\text{-}48\text{m}^3/\text{h}$) with multi-core design options
- SUS304 housing resistant to corrosion and high pressure ($5.0\text{kg}/\text{cm}^2$)
- Reduces frequency of downstream filter bag replacement



Bag Filter

Application

Function as fine filtration in water treatment systems to remove impurities from liquids in spunlace production.

Features

- Side-in bottom-out design with simple operation and small footprint
- Maximum flow rate of $25\text{m}^3/\text{h}$ per unit with low maintenance cost
- Modular assembly allows flexible expansion of filtration capacity
- Metal mesh basket supports filter bag for efficient interception of impurities
- SUS304 material ensures corrosion resistance and durability

2. For spare parts of water circulation & filtration systems



High Pressure Pump Spare Parts

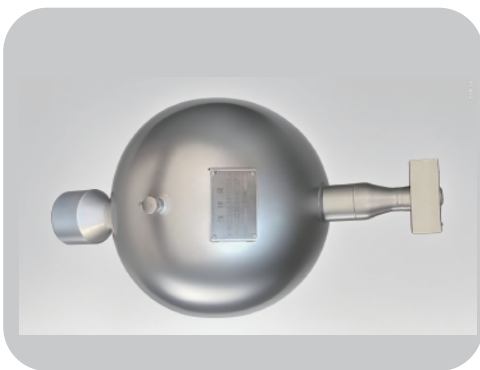
Application

Replacement parts for high-pressure pump

Features

- All components made with premium materials for extended durability
- Precision engineered for reliable performance
- Wide range of parts available to meet comprehensive maintenance needs
- Reduces maintenance time and extends pump service life

Buffer Ball of the High Pressure Pump



Application

Stabilizes water pressure between high-pressure pumps and spunlace machines in nonwoven production.

Features

- Available in multiple diameter specifications to match various high-pressure pump models
- Effectively reduces pressure pulsation and protects pump systems
- Constructed from durable 304 stainless steel with excellent corrosion resistance
- Energy dissipation design ensures easy installation and maintenance



Liquid Filter Bag

Application

Specially designed for water filtration in spunlace production lines

Features

- HD high-density material ensures complete impurity filtration
- Perfect compatibility with filter housings prevents side leakage
- Large dirt holding capacity with easy replacement
- Multiple precision options available to meet various needs
- Customizable designs with extended service life

3. For jet strip & filter cleaning-related products

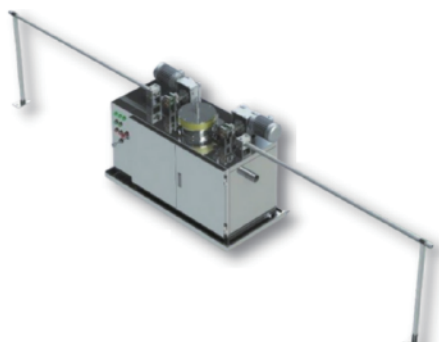
High-pressure Water Cleaning Machine for the Jet Strips

Application

Function as cleaning jet strips

Features

- Multiple models available with different maximum pressure options, up to 480bar
- Suitable for cleaning various models and specifications of jet strips with simple adjustment
- Easy operation with low energy consumption design
- Precise pressure regulation ensures optimal cleaning effect and product quality
- Automatic protection systems including water shortage detection



High-pressure Water Cleaner with Nozzle

Application

Function as cleaning jet strips and filters

Features

- Suitable for cleaning various models and specifications of jet strips and filters
- Compact and portable design with easy mobility
- Nozzle attachment enables precise and efficient cleaning
- High-pressure water jet effectively removes impurities





Special Ultrasonic Cleaning Machine for the Jet Strip and Cartridge Filter

Application

Function as cleaning jet strips and filters

Features

- Customizable dimensions to fit various jet strip/filter sizes and quantities
- Cavitation cleaning prevents mechanical damage to delicate components
- Stable operation with easy disassembly and low maintenance requirements
- Eco-friendly cleaning process reduces manual labor costs
- Improves cleaning efficiency while ensuring equipment longevity

Strip Cleaning Solution for Jet Strips (non-acid recipe)

Application

Function as cleaning the Jet strip.

Features

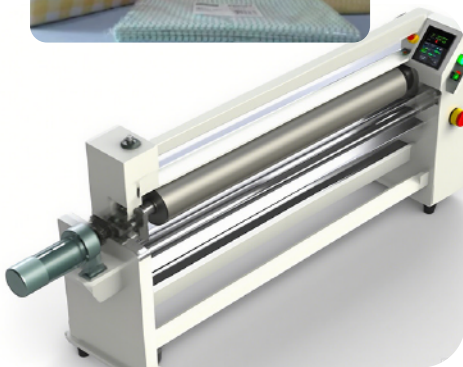
- Non-acid formula with excellent cleaning performance
- Suitable for ultrasonic cleaning and immersion processes
- Can be reused 3-4 times, reducing operating costs
- Effective cleaning at 40-50°C with 4-24 hours immersion
- Easy to use with clear dilution instructions (100-150ml water per 100kg solution)



Series 3 - Converting Machinery



The sizing and printing samples



Sizing and Printing Machine for Spunlace Nonwoven Fabric

Application

Function as sizing and gravure printing processes in spunlace nonwoven production lines

Features

- Quick-roll change system reduces replacement time from 3 hours to 15 minutes
- Ensures even sizing application and sharp gravure printing patterns
- Supports customizable printing rollers for diverse pattern designs
- Clean paste scraping and uniform coating performance
- Over 20 years of technical expertise ensures high efficiency and energy saving

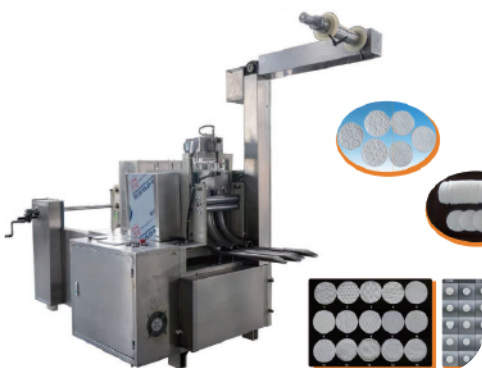
Cosmetic Cotton Pad Machine

Application

Fully automatic production line for cosmetic cotton pads

Features

- Automated process: feeding → heating/embossing → punching → stacking → waste winding
- Precise temperature control with customizable embossing patterns
- Imported special steel circular knives minimize material waste
- Three cooling units with automatic waste recycling
- Cam transmission ensures precise cutting without burrs
- 304 stainless steel in hygiene-critical areas
- Frequency conversion control for safe operation





Compressed Towel Machine

Application

Designed for fully automatic production of compressed towels

Features

- Processes different specifications without blade changes (parameter input only)
- Automatically removes waste materials, splice joints and material tails
- Automatic shutdown during fault alarms
- Full automation from raw material to finished product
- Replaces 3-8 workers compared to traditional operations
- Compact size with low power consumption
- Simple operation and maintenance
- Interchangeable molds for different shapes
- Adjustable compression tightness
- Dual unwinders enable non-stop material roll changes

Series 4 - Test Equipment for Nonwoven Fabric



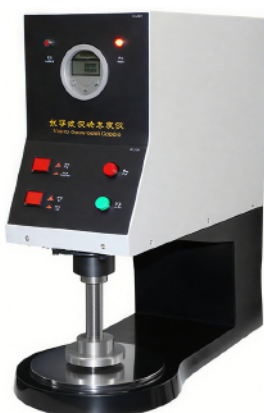
Pneumatic Sample Cutter

Application

Designed for precision cutting of samples in laboratory environments, suitable for various materials including textiles and nonwovens. Requires connection to a standard laboratory air compressor.

Features

- Desktop design with safe two-hand operation
- Provides stable pressure output for clean and precise cuts
- Adjustable cutting thickness with customizable die molds
- Multiple standard die options for various testing needs
- Compact and portable design



Digital Fabric Thickness Meter

Application

Function as measuring the thickness of various textiles, nonwovens, and other uniform thin materials under different pressures.

Features

- Touchscreen control with bilingual menu for user-friendly operation
- Built-in thermal printer for instant test results
- Cam-link mechanism ensures smooth vertical movement
- Self-powered design eliminates battery replacement
- Single/continuous test modes with self-balancing presser foot
- Automatic pressure conversion display ensures accuracy



Intelligent Digital Whiteness Meter

Application

Function as direct measurement of optical properties including whiteness, brightness, transparency, opacity, light scattering, and light absorption coefficient of objects.

Features

- Complies with international and domestic standards for specialized measurement
- d/0 optical illumination/observation geometry eliminates errors from sample surface flatness and placement
- Microprocessor technology enables automatic zero and calibration with memory retention after power off
- Integrated switching power supply ensures low power consumption and wide voltage adaptability
- User-friendly operation with precise and reliable results



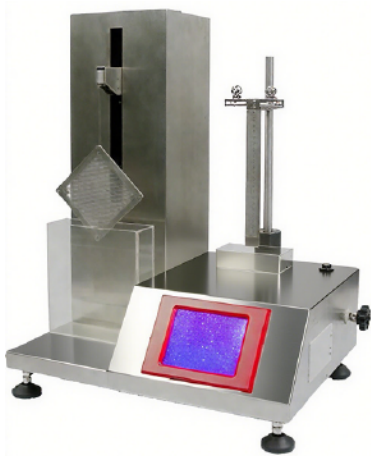
Universal Strength Tester

Application

Function as mechanical property analysis of textiles, nonwovens, geotextiles, including tensile, tearing, bursting, peeling, and other strength tests.

Features

- Touchscreen control with bilingual menu and intuitive operation
- Built-in thermal printer for instant test result output
- Professional software supports bidirectional operation, customizable programs, and remote upgrades
- AC servo drive system with precision ball screw ensures smooth movement and high accuracy
- Multiple safety protections and real-time monitoring for reliable operation
- Pneumatic clamping with interchangeable jaws for efficient testing
- High-precision bidirectional sensor eliminates need for sensor changes
- Three control modes: touchscreen, desktop, or tablet (WiFi optional)



Non-woven Fabric Water Absorbency Tester

Application

Function as determine the liquid absorption properties of nonwoven fabrics, including absorption time, absorption capacity, liquid wicking height, and wicking rate.

Features

- Touchscreen control with bilingual menu (Chinese/English) for user-friendly operation
- Built-in thermal printer for instant test result printouts
- High-precision sensors ensure linearity and stability
- Fully automated testing process with simple operation and accurate data
- Stainless steel construction for durability and aesthetic appeal

Medical Face Masks Differential Pressure Tester



Application

Function as measuring the pressure difference of medical surgical masks under specified conditions.

Features

- High-definition color touchscreen for user-friendly operation
- Imported digital differential pressure sensor ensures sensitive and accurate measurements
- Flow meter allows easy adjustment of air extraction volume
- Pneumatic-controlled fixture for easy and secure sample installation

Digital Fabric Air Permeability Meter



Application

Function as testing the air permeability of various textiles, including industrial fabrics, nonwovens, sponges, and other breathable materials.

Features

- Touchscreen control with bilingual menu for user-friendly operation
- Built-in thermal printer for instant test results
- Professional software enables bidirectional computer operation and data analysis
- High-precision differential pressure sensor ensures accuracy and repeatability
- Automatic nozzle switching and sample fixation system
- Digital parameter setting with customizable units
- Seamless steel tube construction with door lock ensures durability and airtightness
- Pneumatic sample clamping device maintains tight sealing

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