TONGDA
SPINNING since 1952

BRANCHES

- Shandong Tongda Textile machinery Co.,Ltd
- Qingdao Tongda Textile Machinery Co.,Ltd
- Qingdao Weaving Machine Co.,Ltd
- Shandong Tongda Nickel Screen Co.,Ltd
- Shandong Tongda Synthetic Co.,Ltd
- Shandong Tongda Textile Machinery (group) Co.,Ltd

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TONGDA NONWOVEN SYSTEM

Tongda Group specializes in design, manufacturing, and marketing of a wide range of Textile machinery, it has five branch companies, mainly produces blow room, cotton carding machine, draw frame, Roving frame, rotor spinning machine, ring spinning machine, water jet loom, nonwoven machinery etc. The company has built a complete infrastructure to support a full effort for product research and development to satisfy the needs of the marketplace. Production capability for cotton machinery and spinning machinery products sustains an annual quantity of 20,000 units of various models.

Tongda has been growing steadily since 1952 when the spinning machine were developed. Tongda places its focus on becoming a professional supplier of Textile machinery and new materials with continuous development of modern ergonomic designs, a reliable service support network, and an efficient global network of logistics. Today, Tongda machines are being widely used by thousands of cotton and yarn, textile manufacturers.

Along with product development, Tongda has been awarded technology patents. Special techniques in design and manufacturing have also been perfected.
Tongda is an ISO9001, ISO14001, and ISO13485 company. The products are designed to meet the technical standards of 3C and CE. All the products are certified by the Industry Administration Authority.

Tongda will continue to strive to be a stronger leader in the global market of Cotton machinery and Spinning machinery.

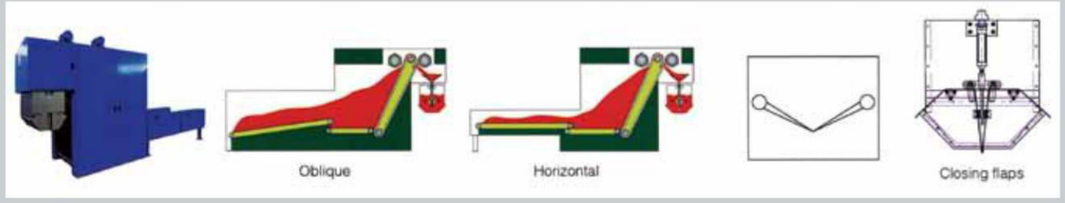
TDKB BALE OPENER

Function and characteristics

To open and electronically weight the correct proportion of fiber.
Several sets maybe combined together dependent on the number of fiber types to be blended together.

Main specifications:

Working width: 1100mm, 1400mm
Capacity: ≤200g/h, ≤300g/h
Installed power: 3.75kw



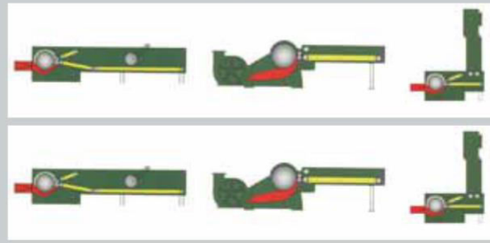
TDKB OPENER

Function and characteristics

Open and blend the fibers prior to the next process.
There are several options for the opener depended on the fibers to be used.
These options are: A) Toothed opener, B) Pin plate opener, or C)Wired opener.
A plate magnet is included for metal extraction. Alarm and reverse running when jammed.

Main specifications:

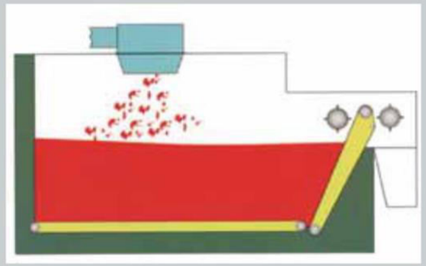
Working width: 1000mm, 1300mm, 1500mm
Capacity: 250kg/hr, 350kg/hr, 500kg/hr
Installed power: 7.0kw 7.0kw 11kw



TDHM BIG CHARMBER BLENDER

Function and characteristics

Mix and store the opened fiber in a large volume to achieve continuious automated production.
Rotary separator to ensure the fiber is distributed in the blending chamber evenly.
Photo electric sensors control the chamber status.
Galvanized or stainless steel sheet construction is available for chamber construction.



Main specifications:

Working width:	2000mm,	2200mm,	2500mm
Capacity:	16 m3	20m3	30 m3
Installed power:	8kw	8kw	10kw

TDGM-I PNEUMATIC FEEDER

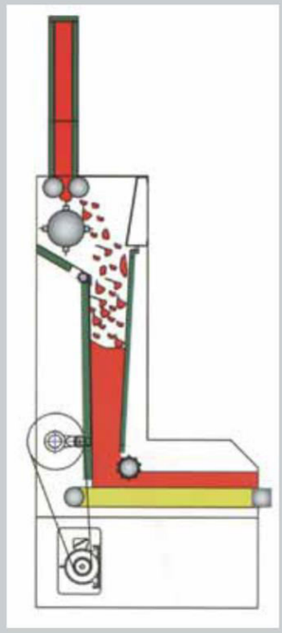
Function and characteristics

This feeder is used for feeding fine to medium denier fibers to the card.
The opened fiber is fed to upper trunk of this machine, after further opening by the beater, an even layer or even quantity of fiber is transferred to lower trunk by the circulation fan uniformly, then across the width of the machine to feed the card.
This machine can automatically adjust the web uniform by a combination of photo electric sensors and pneumatic or air pressure control.

Main specifications:

Working width:	(1400-2350)mm
Capacity:	(160-400)kg/hr
Installed power:	(4.85-5.2)kw

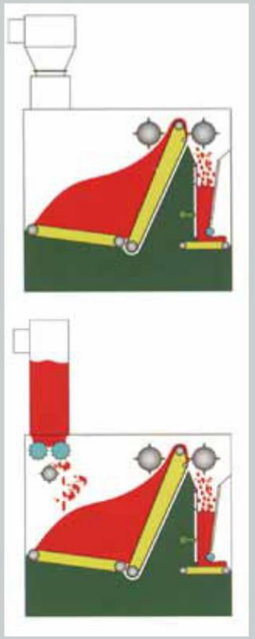
TDGM-11AIR FLOW VIBRATING FEEDER



TDGM-III VIBRATING FEEDER

Function and characteristics

This feeder is used for medium to coarse denier fibers to store the opened fiber and then facilitate the transfer of an even layer or even quantity of fiber across the width of the machine to feed the card.
Average roller and stripping roller drive separately.
Spiked lattice controlled by inverter.
Photo electric sensors continually control fiber levels in the unit.
In addition, there is a vibrating plate system for even and accurate feeding.



Main specifications:

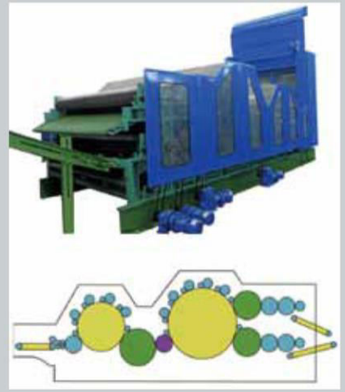
Working width: (1400-2350)mm
Capacity: up to 800kg/hr
Installed power: (2.25-3.3)kw

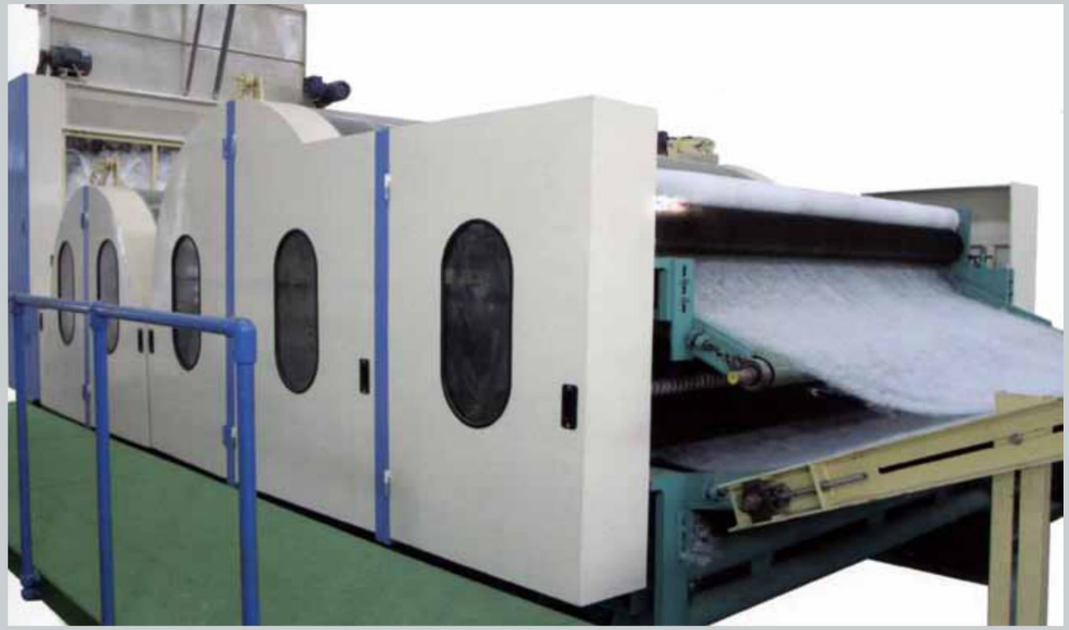
TDSL CARDINGMACHINE

Function and characteristics

- This machine is used for fully carding the fiber batt following opening and blending, then forming parallel or random web through doffer and random if required, which is then supplied to the next processes.
- The carding machines cover all types of fiber, synthetic and natural fibers etc, from very fine to very coarse deniers, fiber length up to 120mm.
- Card with cylinders up to 1.5meters in diameter and up to 2.5 meters in width are produced as normal standard.
- Card main cylinders are balanced to a surface speed of 1500meters/per min, output speed up to 80m/min, web weight 12-60gram/ ㎡.
- Card capacity is depending upon card type, fiber denier, types of fiber but can be excess of 800kgs/per hour.
- All types of card both single and double doffers can be fitted with randomizer rollers or nor dependent on customer's needs.
- All drives including main drive, doffers, workers, feed rolls etc are variable speed. Metal detection devices are standard on feed rolls.
- Card wires can be supplied as surface wound or interlocking as required.
- The multi-point suction system ensures all free fibers and dust is continuously removed from the card to be recycled or fed to another recycling process.
- High-precision fitted undergirds effectively control the airflow and ensure the CV value of fiber web.
- Surface precision grinding of the cylinders ensures less than 0.02mm runout as normal tolerance.
- All main cylinders and larger rollers are precisely balanced prior to assembly.
- Top covers are opened and closed by motor assisted system.
- The control system may be by servo-motor or inverter drives according to customer requirements. This ensures that the total line will have constant synchronization with controlled stable start and stop of the line.
- Card is fitted with a system to minimize rollers of fiber thus helping to protect card wire.
- The cards have a complete and total electronic safety system to meet all international standards.
- Other details and variables are dependent on customer's needs and can be discussed with our technical staff.

TDSL-IIC2D2 CARDING MACHINE



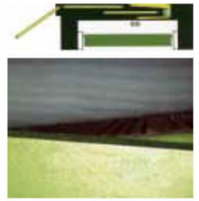


TTPW CROSS LAPPER

Function and characteristics

- The machine is used to fold or plate the web into multi-layers after carding into the required width and product weight.
- From here, the batt of material is ready to transfer to the next process, for example: to needle loom or to the oven.
- All cross lapper aprons are driven separately, forward and reverse movement is controlled accurately by PLC and this allows for easy adjustment.
- Automatic correction system.
- The reciprocal motion is controlled by inverter drive and all components are sealed against oil leakage.
- The crosslapper utilizes PLC interface by touch screen and PLC programmable controller to make operating parameters and conditions easy to change, repeat or maintain.

TDPW-II CROSS LAPPER



Main specifications:

Input width: ≤2700mm
Output width: (2500-10000)mm
Lapping speed: ≤35m/min

Function:

Used for reinforcing and surface finishing of the nonwoven fabrics.

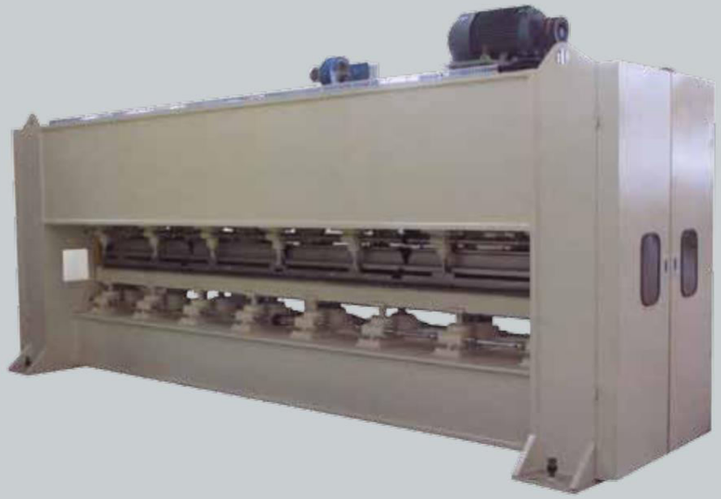
Main specifications:

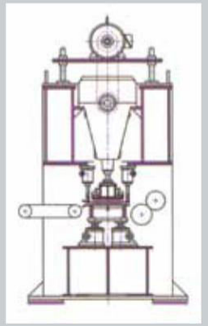
Working width: (2200-10000)mm
Needle density: (4000-8000)n/m
Needle stroke: (25-50)mm
Needle frequency: (800-1200)r/min
Needle type: single board, up/down stroke.

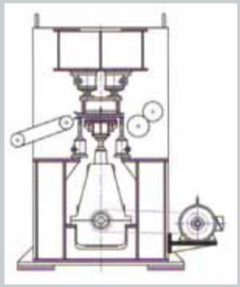
Structure:

Crank cause complete with a vertical balance system.
Centra oil lubrication circulation and cooling system complete with pressure and temperature alarm systems.
Magnesium alloy/PU combined needle board locked firmly by lock-bolt or air tube; multi random computer needling methods for needle board. Chrome plated delivery rollers with carved or patterned surface.
Auto top dead center controlled stop.

TDGZ-II NEEDLE LOOM







TDGZ-III TANDEM NEEDLE LOOM

Function

Used for reinforcing and surface finishing of the nonwoven fabrics.

Main specifications

Working width: 2200-8000mm
Needle density: 5000-8000n/ m*2 boards
Needle stoke: 25-50mm
Needle frequency: 800-1200r/ min
Needle type: double shafts, double boards, up stroke& down stroke

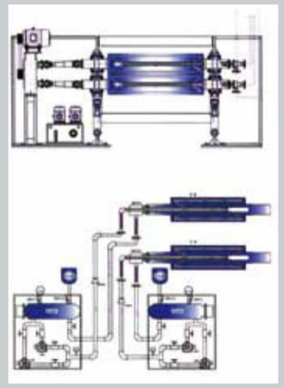
Structure

Crank case complete with a vertical balance system.
Central oil lubrication circulation and cooling system complete with pressure and temperatrure alarm systems.
Magnesium alloy/ PU combined needle board locked firmly by lock -bolt or air tube; multi random delivery rollers with carved or patterned surface.
Auto top dead center controlled stop.

TDRZ CALENDER

Function and characteristics

Used where high pressure is required for maximum control of thickness or surface treatment and bonding of light weight nonwoven material.

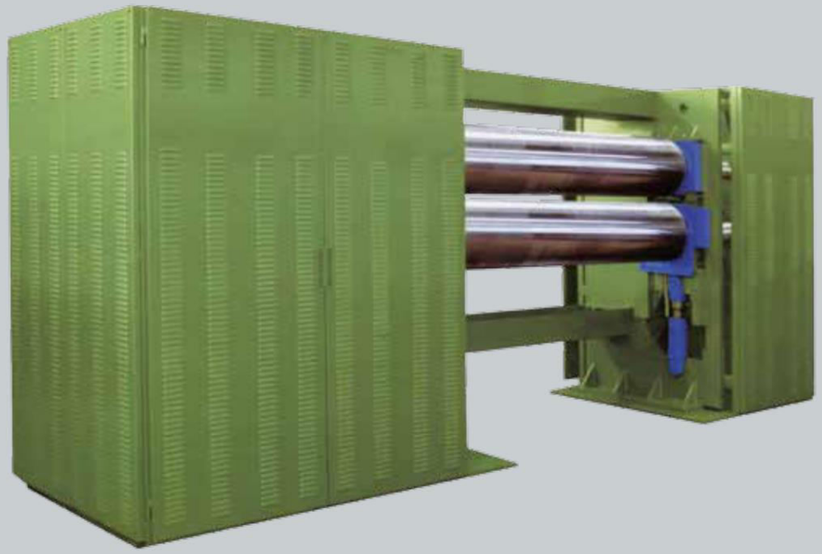


Main specifications

Working width:	1800-3500mm
Working pressure:	≤100kg/ cm
Mechanical speed:	≤4000mm/ min
Surface temp.	≤260℃
Temp. Difference	±1℃
Structure style	2-roll or 3-roll
Heating method	hot oil circulation

Structure

Heated rollers are adopt heat-resistant alloy steel, surface engraved by electronic programmed engraving system.
Separate oil heating system, adjust and keep the temperature automatically. Up-down rollers cross over 0-30mm axial direction, pressure in the two ends can be adjusted precisely by hydraulic system.
The bearings are lubricated/ cooled by a separate oil system.
The universal coupling is connected to inverter motor for driving.



TDH-I THERMAL-BONDING OVEN

Function and characteristics

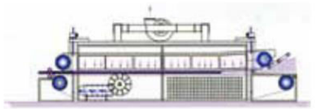
The machine is used to process the web to obtain the required hard and thick thermal-bonding wadding.
The low melt fiber will combine other fibers together through hot air penetration and cooling system for reinforcement.

Main specifications

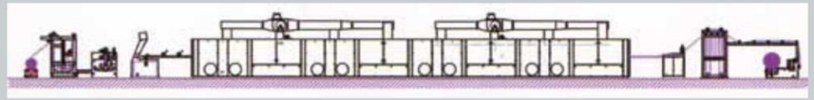
Working width: ≤3600mm
Product weight: 100-9000gram/ ㎡
Product thickness: 3-200mm
Surface temp. ≤220℃
Heating method: hot oil circulation, electricity heating, direct burning
Oven working width: 4.8m 6.0m

Structure

Single pass double-belt structure
Top and bottom belts hold the fiber batt on oven entry to allow it to be heated whist forming its structure.
The gap between the belts may be adjusted within the range of 50-250mm
The belts are of manganese base material coated with TEFLON.
Unique special air duct design allows hot air to penetrate from either up or down.



TDDX COATING, STENTER, HEAT SETTING COMBINATION LINE



Function and characteristics

Finishing and after treatment of nonwovens for heat setting and consolidation, such as asphalt substrate, footwear, luggage, interlinings, carpets, industrial nonwovens etc.

Main specifications

Working width: 1500-4500mm
Product weight: 100-1000gram/ ㎡
Working speed: ≤30m/ min
Heating method: hot oil circulation, direct burning
Structure: horizontal, vertical
Working length: 18-30m

Structure

Foam-coating, coating, saturated impregnating, spray-bonding etc.
Modular circulation oven using a small floor space.
Drive chain, auto-lubrication rail, inter-locked controlling and amplitude modulation device
Auto trim-detector centering fabric guiding device.
Auto sensing moisture content exhaustion system.
Circulation fan and inverter control.

TDXT WINDER& CUTTER

Used for nonwovens for winding into compact roll, cutting, metering etc.

TDFQ SLITTING MACHINE

Used for nonwovens fast section cutting, metering, winding and etc.

TDHQ WINDER& CUTTER

Used for cross cutting for sheeting applications and winding soft compact roll.
In addition, edge -trim knives and other slitting devices can be added according to individual applications.

TDZQ LENGTHWAYS CUTTER

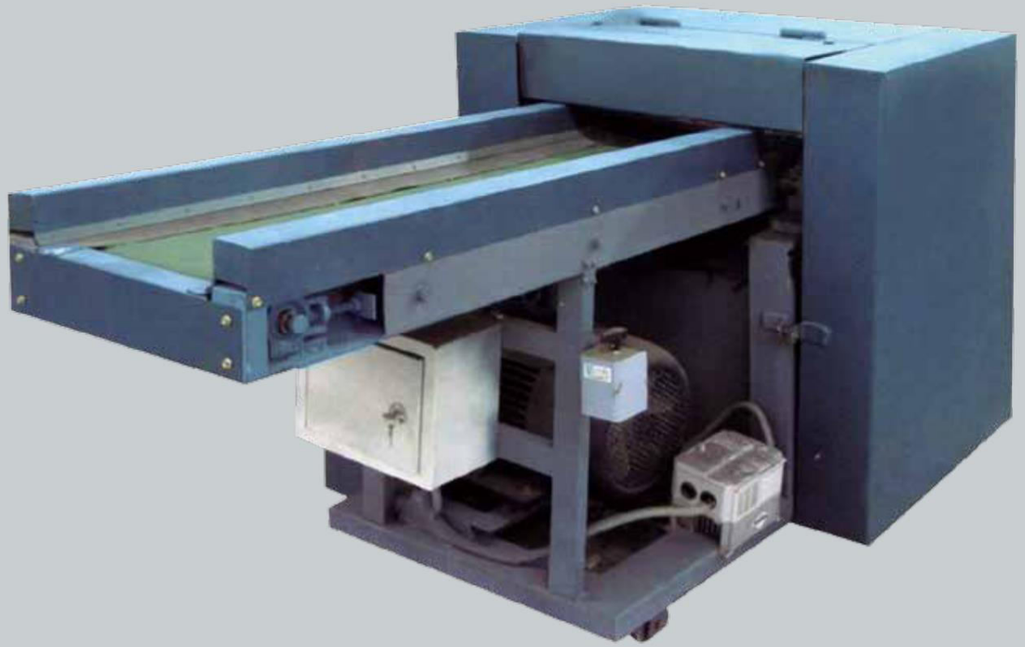
This cutter is a high speed rotating blade to allow for clean and precise cutting of heavy materials.

TDSB RECYCLING MACHINE

This device is used to process waste material from the web forming systems into fiber to be re-blending at the start of the process.
The number of cylinders and production output dependent upon the type of material to be opened.

TDQT WASTE FABRIC CUTTER

The device is used to cut the large or long waste materials into small and short pieces, which are easy to be processed on the recycling machine.



TDL-NS AUTOMOTIVE INTERIORS NONWOVENS PRODUCTION LINE

Application& characteristics

Automotive interiors nonwovens mainly used for headliners, trunk, carpets and other interiors.

Main specifications

Product net width: up to 5000mm (or wider depended on individual requirements)
Product weight: up to 80-450gram/m2

TDL-ZT GEOTEXTILE PRODUCTION LINE

Application& characteristics

Production lines can make all kinds of needle punching geotextiles or other needle punching products. The line can have additions such as batt and / or felt drafters. Needle looms of different neeedle types and / or densities can be used dependent on end use of product.

Main specifications

Product net width: up to 9000mm (or wider depended on individual requirements)
Product weight: up to 100-1000gram/ ㎡

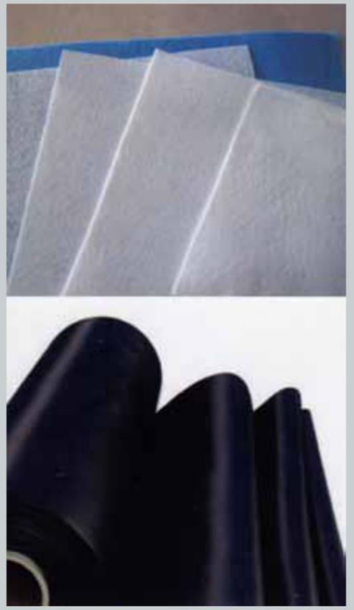
TDL-YZ ASPHALT SUBSTRATE PRODUCTION LINE

Application& characteristics

Asphalt needle punch fabrics used for civil engineering water-proofing and industrial applications and etc.

Main specifications

Product net width: up to 4800mm (or wider depended on individual requirements)
Product weight: up to 80-250gram/ ㎡



TDL-GL FILTER FELT PRODUCTION LINE

Application& characteristics

All kinds of filter felt and GMT board used for the temperature insulation, interlinings, automobiles headliners, dust exhaustion and filtration, etc.

Main specifications

Raw materials: non-alkali fiber glass or neutral-alkaline glass fiber, PP, PET, ES fiber
Product weight: up to 500-2200gram/ ㎡

TDL-MB NEEDLE PUNCHING CLEANING CLOTH PRODUCTION LINE

Application& characteristics

A carded and crosslaid batt is processed by one or multiple needle punching zones, or processed through an oven or stitching bonding machine if required based on the products and fiber types. The products are widely used for wipes, mop materials or similar products.

Main specifications

Raw materials: viscose fiber, low melting fiber, polyester, waste cotton fiber and etc.
product net width: up to 3500mm (or wider denpended on individual requirements)
Product weight: 80-250 gram/ ㎡

TDL-HY THERMAL-BONDED WADDING PRODUCTION LINE

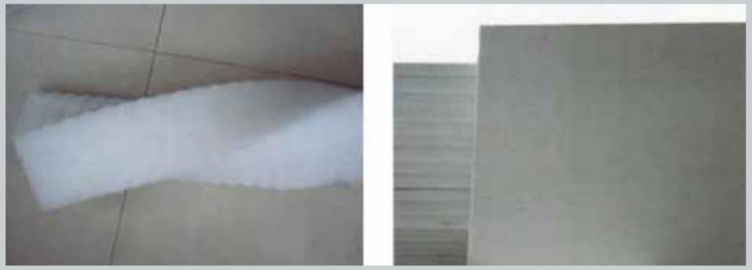
Application& characteristics

The thermal bonded waddings production line uses low-melt or bi-component fiber mixed with normal fiber in properties to create stiff waddings, or such as foam replacements for cushion,mattresses, acoustic and insulation felt, etc.
Also able to make soft wadding for interlinings such as home textiles, garments, furniture, toys etc.
The material after forming into a batt is passed through a thermal-bonded oven with stainless steel or Teflon belt dependent on the products. Where fitted the top belt is a moveable compression belt.
However, for soft waddings, e.g. lofty material below 1500 gram/m2, it is normal to use Teflon belts in the oven.

TDL-HY-I THERMAL BONDING WADDING PRODUCTION LINE

Main specifications

Product: stiff wadding& wadding
Product net width: up to 3000mm (or wider dependent on individual requirements)
Product weight: 100-9000 gram/m2
Product thickness: 3-200mm



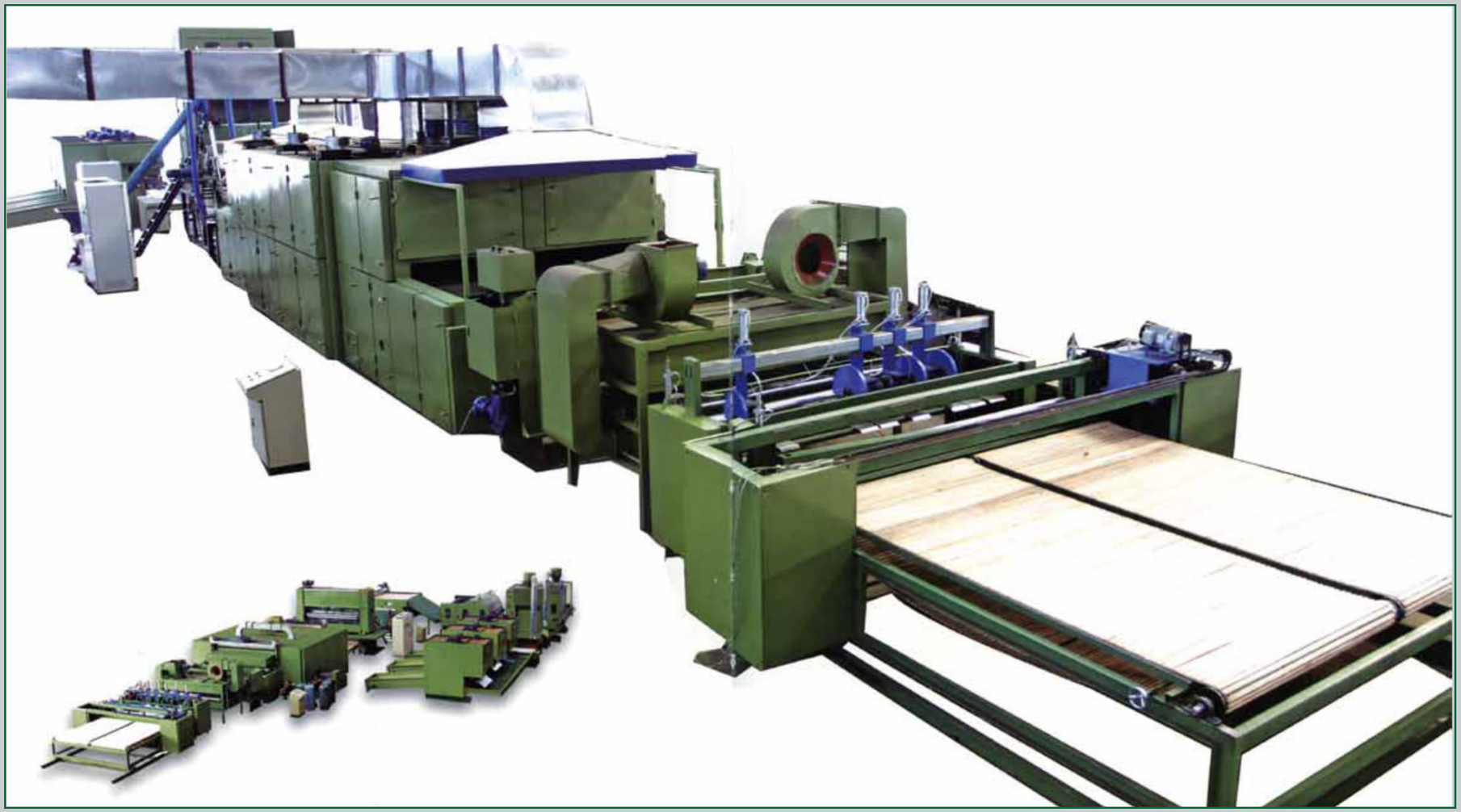
TDL-FZ FORMED FELT PRODUCTION LINE

Application& techniques:

We offer options of a carded and crosslaid forming line or an airlaid system for recycled felt before it is needled or processed through an oven, depending on loft, thickenss, hardness of the product and fiber types etc.

Main specifications

Product net width: 2500mm
Product weight: 100-2500gram/ ㎡

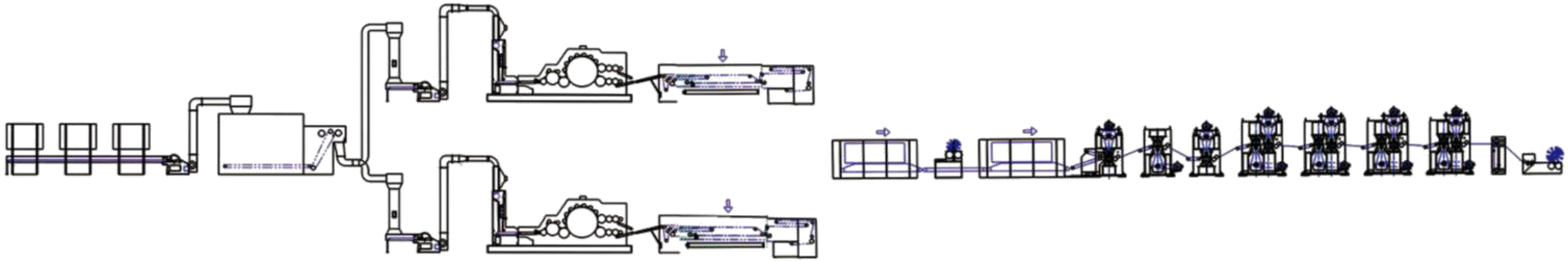


Needle punching felt

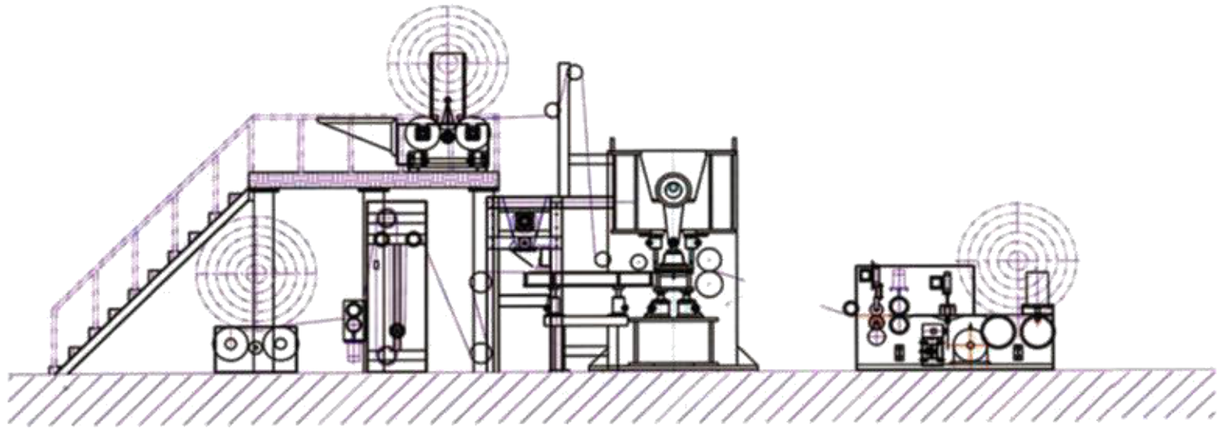
Air laid & thermal-bonded felt

Needle punching & thermal-bonded felt

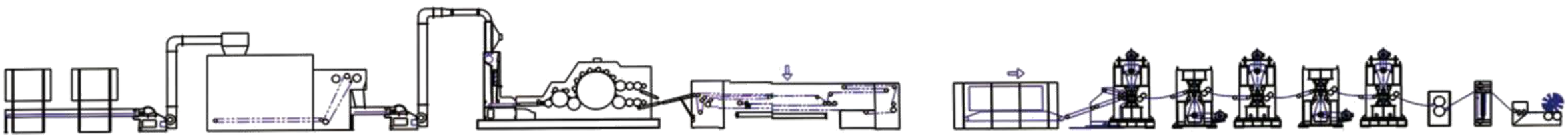
FILTER FELT PRODUCTION LINE



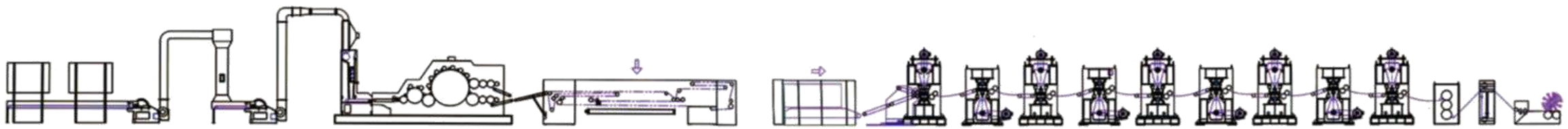
GEOSYNTHETIC CLAY LINER PRODUCTION LINE



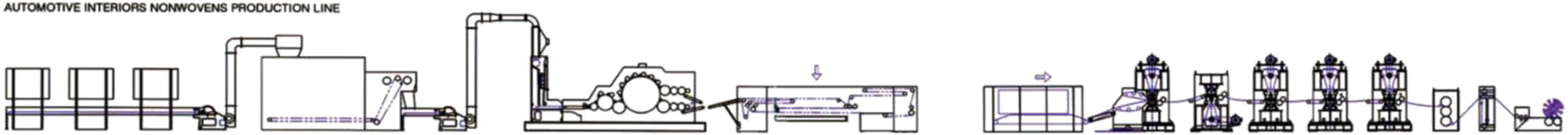
NEEDLE PUNCHING CLEANING CLOTH PRODUCTION LINE



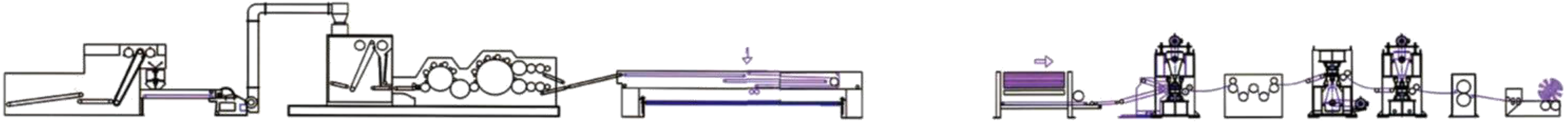
THERMAL BONDING WADDING PRODUCTION LINE



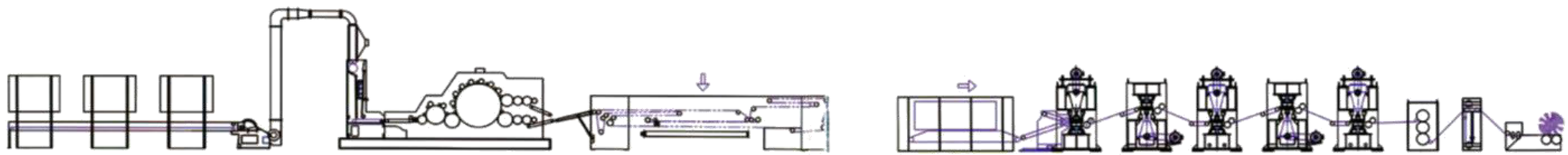
AUTOMOTIVE INTERIORS NONWOVENS PRODUCTION LINE



GEOTEXTILE PRODUCTION LINE



ASPHALT SUBSTRATE PRODUCTION LINE



ASPHALT SUBSTRATE PRODUCTION LINE