Brief Introduction of

Spunmelt Nonwoven Production Line
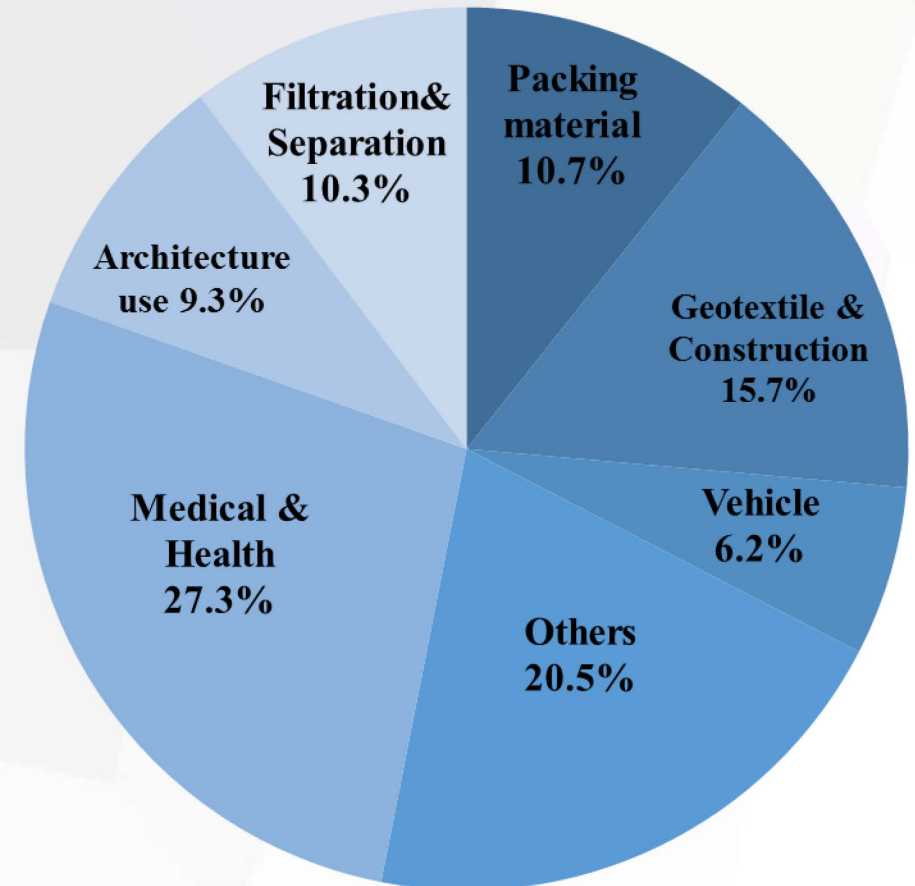
Nonwoven Market Analysis

Nonwoven Methods

- Thermal bond 5%
- Air Carding 3%
- Others 1%
- Wet Laid 1%
- Latex 7%
- Meltblown 1%
- Spunlace 10%
- Needlepunch 23%
- Spunbond 49%
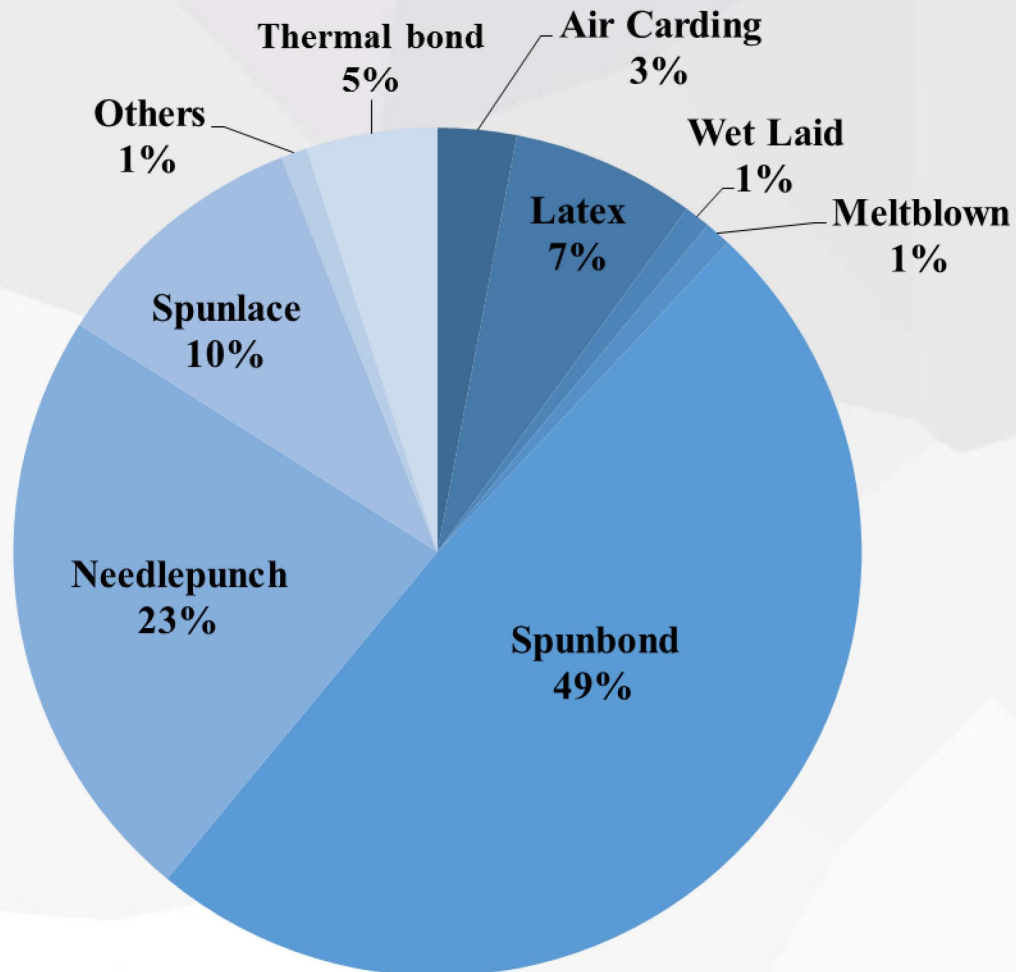
Nonwoven Final Production Analysis

- Filtration& Separation 10.3%
- Packing material 10.7%
- Architecture use 9.3%
- Geotextile & Construction 15.7%
- Medical & Health 27.3%
- Vehicle 6.2%
- Others 20.5%

Data sources : CINITA

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Spunmelt Nonwoven Production Line

The Main Applications of Spunmelt Products

Bag/lining

Shopping bags

Household products

Nonwoven cover for agriculture & landscape

Healthcare
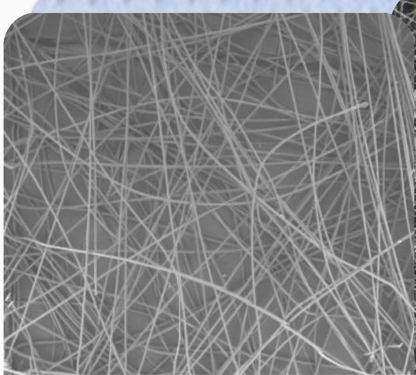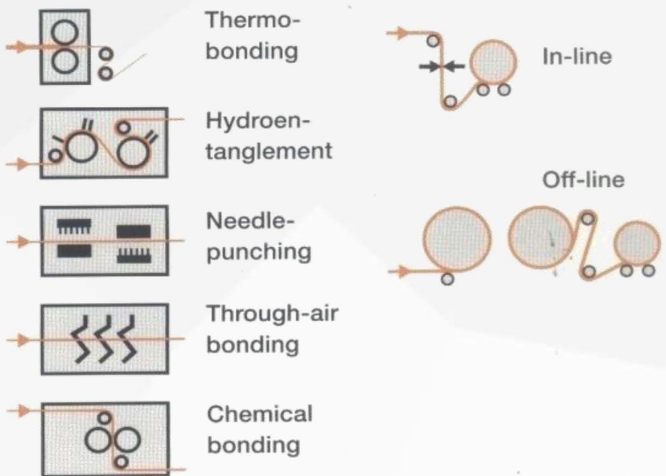
Surgical drapes

Sterilization wrap

Surgery kits&packs

Surgical gowns

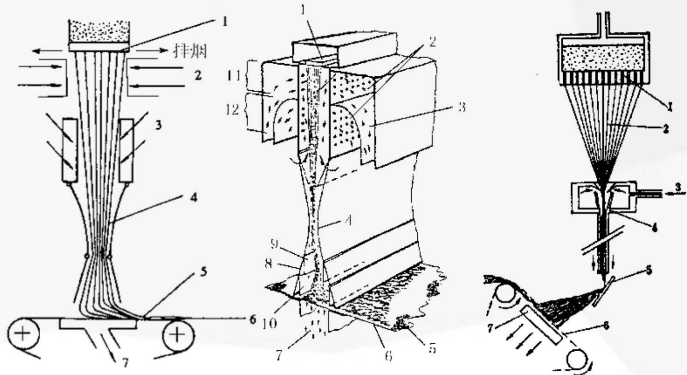Medical material

Equipment plastic covers

Hygiene

Baby diaper

Adult diaper

Sanitary towel

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Spunbond Process

Meltblown Process

螺杆挤压机　熔体过滤器

齿轮计量泵

空气加热器

熔喷喷头

空气压缩机

卷绕机
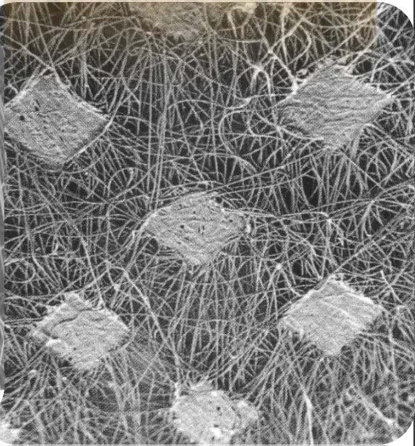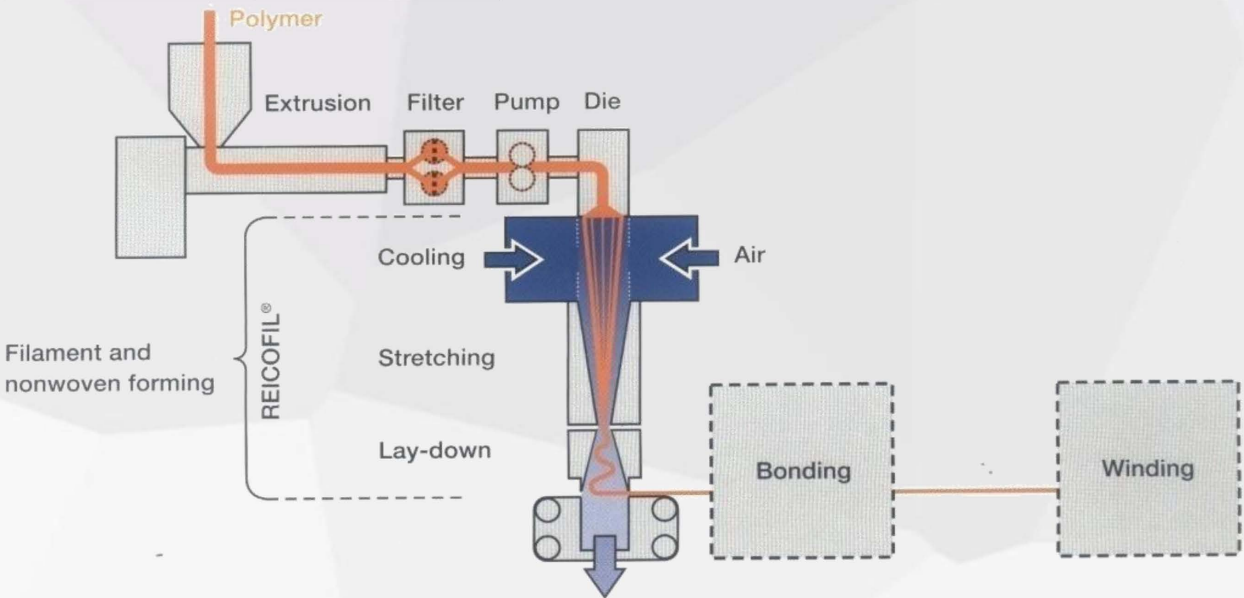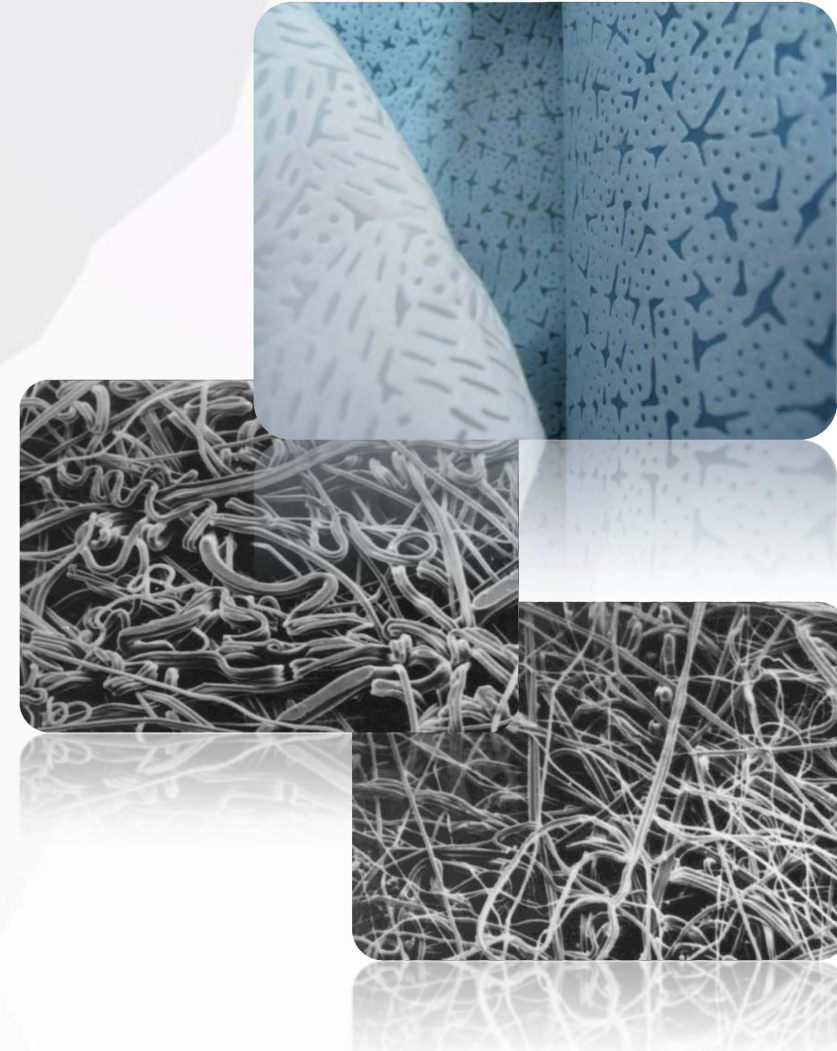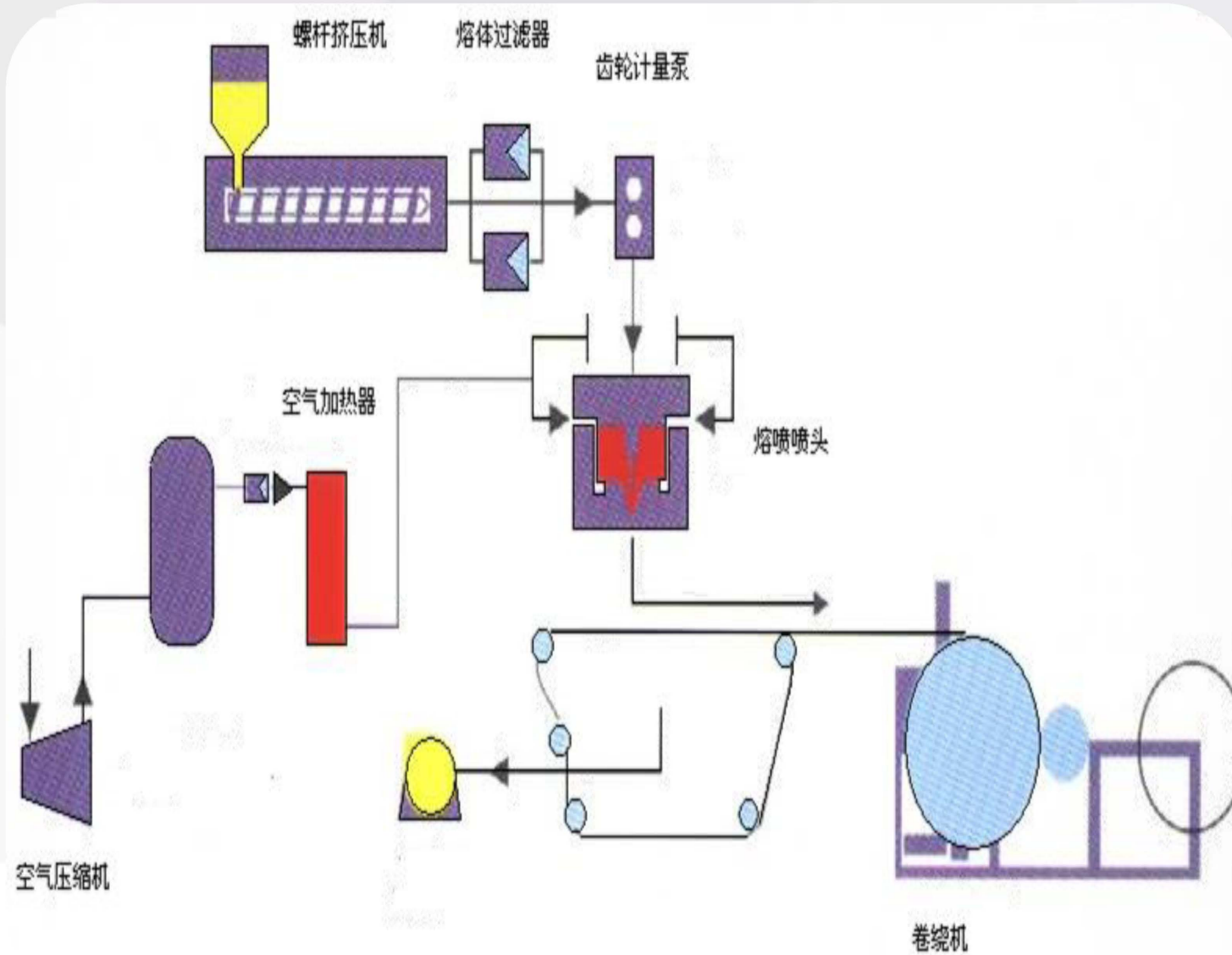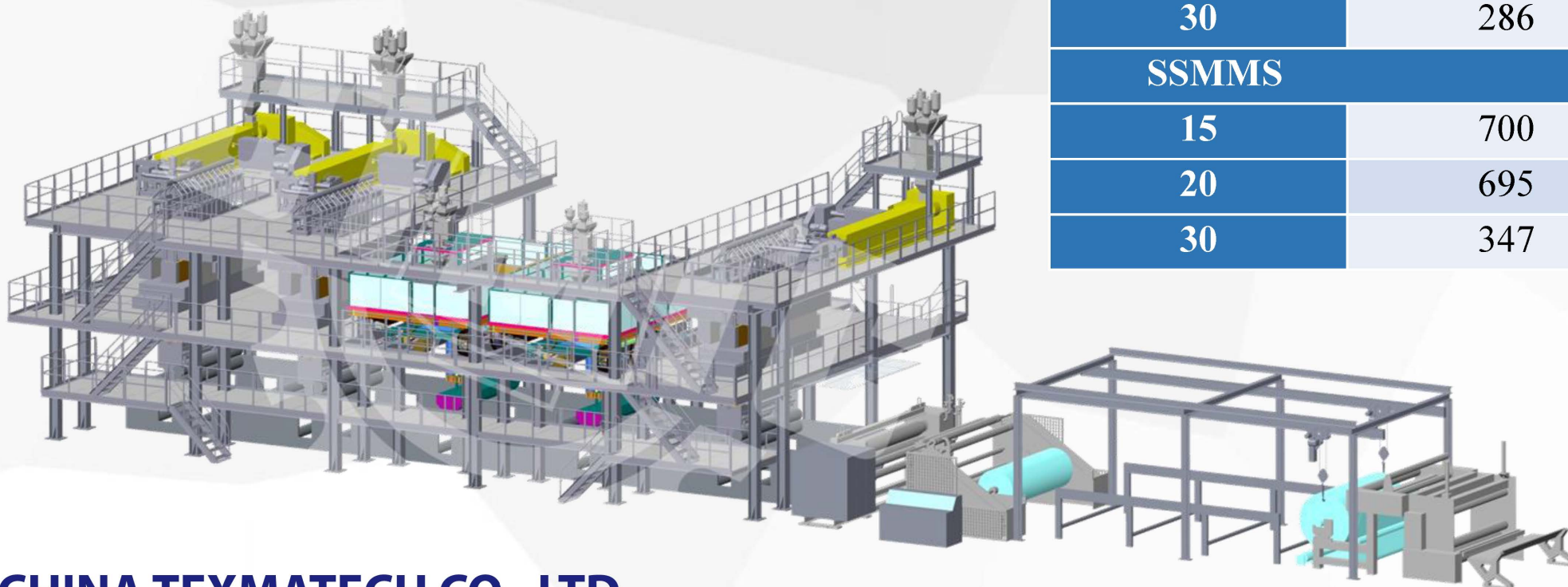
Reference of throughput of 3.2 SSMMS

CTMTC

SSMMS

Five-Beam Spunmelt Nonwoven Line

Max.Process Speed : 720m/min

Weight(g/m^2)	Speed(m/min)	Throughput(kg/h)
SSS		
13	660	1650
15	570	1650
30	286	1650
SSMMS		
15	700	1475
20	695	2000
30	347	2000

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The advance of CHTC equipment

☐ **Special Design and Manufacture for Spin Beam**

Hongda spinning beam 3.8m width
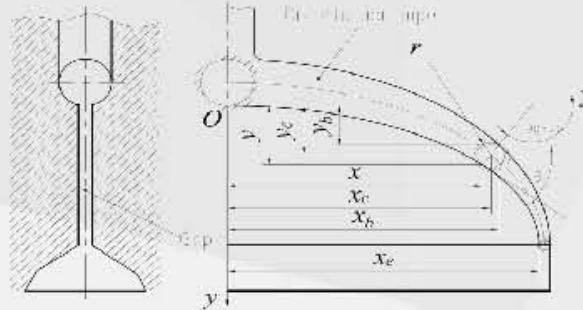
☐ **Design of Melt Spinning**
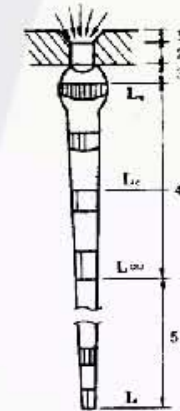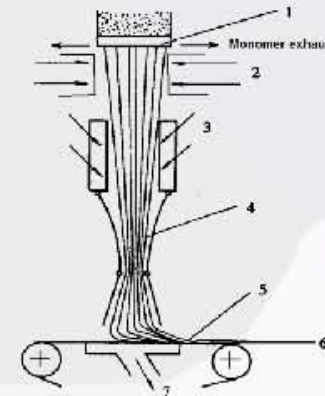
1. Inlet period
2. Flowing period
3. Expanding period
4. Forming period
5. Stabling period

L∞: Concreted point

☐ **Quenching Chamber & Stretching Channel & Diffuser**
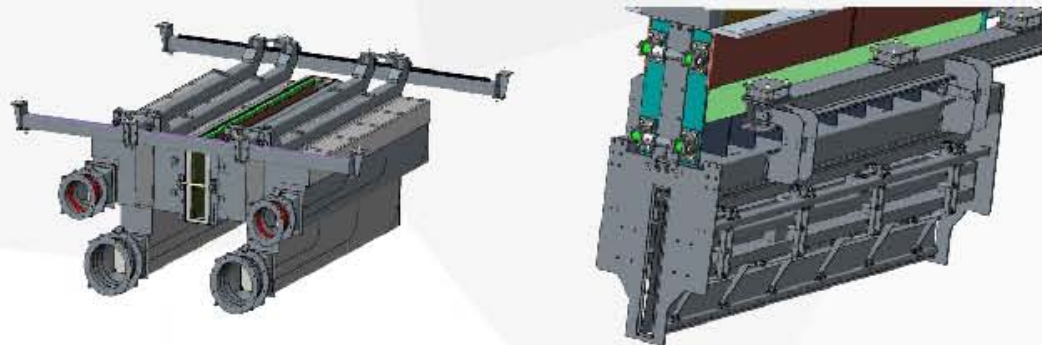
☐ **Conveyor**
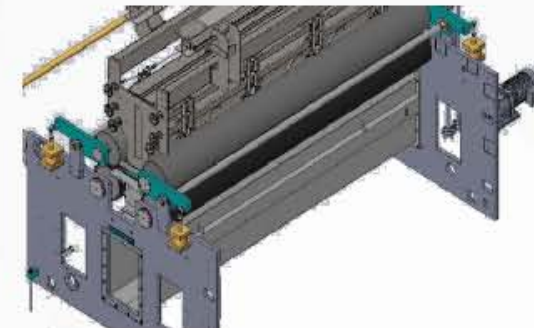
The advance of CHTC equipment

New design on meltblown technology

☐ Special design of spin beam suit to higher MFI index PP chips raw material.

☐ Patent technology to get uniform stretching hot air even in over 300 m/S air flow speed

☐ Low pressure stretching technology

☐ New designed spinneret for easy to quickly install

New design on bi-co spunbond technology

☐ Bi-co spinbeam melt flow illustration drawing
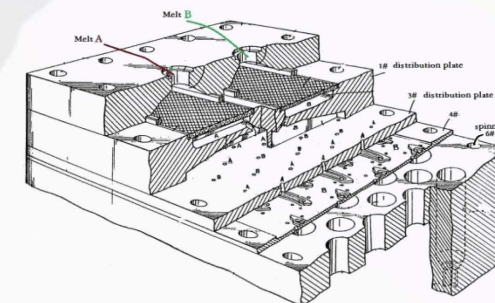
☐ Sheath-core bi-co die illustration drawing

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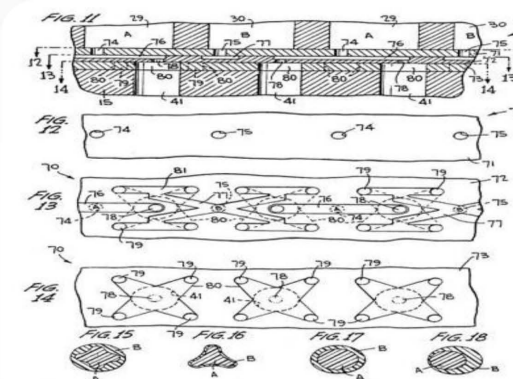
Partnership with famous brand

No.	Item	Manufacturer
1	Meter pump	MAAG Switzerland
2	Temperature sensor	JUMO Germany
3	Pressure sensor after filter	DYNISCO Germany
4	Temperature control module	TAIDA China
5	Motor of extruder	Siemens China
6	Conveyor motor reducer	SEW Germany
7	Bearing of conveyor roll	SKF Sweden
8	Refrigeration unit	Carrier America
9	Air condition unit	China
10	SB spinneret, MB die pack&spin beam	Enka Germany
11	Air blower	TONGYONG China
12	Melt filter	China
13	Calender	Andritz Germany
14	Slitter/Winder	China/A Celli-Italy
15	Inverter	Siemens Germany

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Professional Design
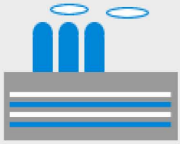
☐ Design the reasonable and customized machine arrangement whatever for customers' existing workshop or new building

☐ Calculate the total installation power after the beginning of design and also recommend customer the suitable transformer capacity

☐ Full set of drawing according to the process step

Compress Air

☐ Utilities

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现场安装服务记录及交接单
Machine Hand-over And Performance Delivery Sheet

Document Ver.	v2.1		Document Date:	2017.9.XX

合同号 (Contract No.)	2016-XXX	安装日期 Erection Period	2017.X.XX2 --- 2017.X.1XX	
客户名称 (Customer Name)	XXXXXXXXXXXXXXXXXXXXXXX.A.S.			
公司地址 (Company Address)	XXXXXXXXXXXXXXXXXXXXXX			
工厂地址 (Factory Address)				
安装设备 (Machine Erected)	一套3.5M水刺无纺布生产线设备 One Set of 3.5M Nonwoven Spunlace Production Line Equipment			

安装团队 (Engineer Team) / 指导安装时间 (Staying Time)

人员名单 (Name List)	出发 (Arriving)	返回 (Return)	时间 (Days)	满意度/备注 (Satisfaction/Remark)
1 Mr. Wang Huanluo	2017/3/13	2017/4/13	32	
2 Mr. Hu Wei	2017/3/13	2017/4/17	36	
3 Mr. Wen Zhanqi	2017/3/13	2017/5/17	66	
4 Mr. Tian Haibin	2017/3/13	2017/5/17	66	
5 Miss. Wang Xiaoyu	2017/3/13	2017/5/17	66	
6 Mr. Li Feng	2017/3/13	2017/5/27	76	
7 Mr. Ma Zhenning	2017/4/10	2017/7/9	91	
			Total: 433	

主设备到货及开箱检验记录 (Record of arrived goods & inspection)

包装 Packing: ☐好 good ☐破损 broken(enclose table if any)
装箱 Encasement: ☐好 good ☐缺件 Part missing (enclose table if any)
零件加工质量 Parts quality: ☐好 good ☐差 bad (enclose detail info if any)
详细信息(如有)Details Info(if any):

备件开箱清点/验收/移交记录 (Record of Hand-over of spare parts)

装箱 Encasement: ☐好 all right ☐缺件 missing (enclose table if any)
移交情况 Hand-over: ☐已移交 Yes ☐没有 No

ERECTION SUPERVISION AGREEMENT

Date:

This Agreement is made by and between the following two Parties

(the captioned Contract's Seller, herein...

and

(The captioned Contract's Buyer, here...

Whereby Party A, at the invitation of Par...
called the "EST") to the mill site of Party B...

Article I. Qualification and Charges

Item	Qualification	
1	Mechanical Engineers	
2	Electronic Engineers	
3	Coordinator (English language skills)	

EST team payment of allowance afford by P...
US$ 30.00/- per day per person by cash;
Air tickets: Party B shall provide prepaid...
airport in P. R. China and SITE.
Boarding & Lodging: Party B shall provid...
charge for entire durations of erection...

Installation, commissioning and running schedule

	(open box inspection check)OBI :	1	2	3	4	5	6	7	8	9	10	11	12
	mechanical installation												
1	centering on the ground for each unit and prepare foundation	2											
2	Open box inspection check		2										
3	Put units into position												
4	MH591A-250 Squeezer				1	1	1	1					
5	CJFY2002-250 printing machine				1	1	1	1					
6	MH602Z-250 Cylinder dryer				1	1	1	1	2	2	2	2	2
7	W2728-250(2) Rotary screen dryer				1	1	1	1	2	2	2	2	2
8	W2801C Auto -winder				1	1	1						
	electrical												
9	Open box inspection check										1		
10	wiring for each unit										1	1	
11	soft program commission												1
12	connect with the whole line in phase												
	Test running												
13	Unit test running and start-up												
14	whole line testing without material												
15	mechanical and electical trainning 2 days.												
16	whole line running products												
	manpower requirement	2	2	5	5	5	5	4	4	4	6	5	5

Specification of the Production Line

- Long time Unbroken production cycle, no broken filament and dropping melt appeared

- More fine filament, normally lower than 1.8 denier

- Better webbing style of fabric, comfortable handle and better softness

- Lower MD/CD direction strength ratio

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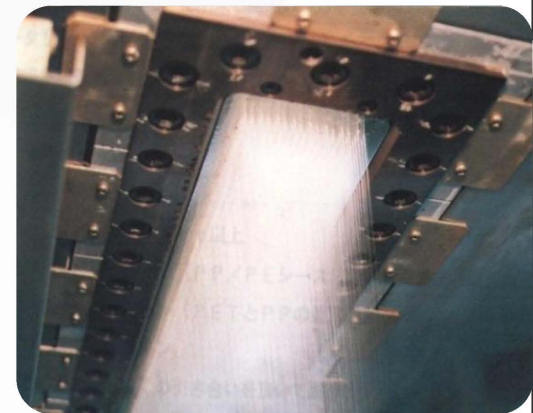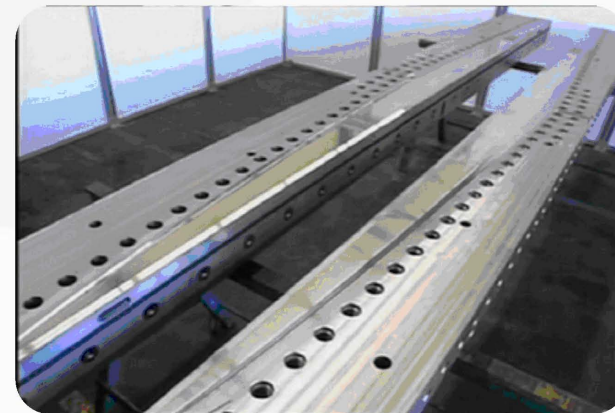
CHINA TEXMATECH CO., LTD.

Thanks

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