



SPUNBOND
and
MELT BLOWN
SYSTEMS

Technological features of FARE' SYSTEMS

- Multistation gravimetric dosing
 - Dryerless extrusion
 - Multipolymer processability
 - Optimized melt omogeneization
 - Efficient melt decontamination
- Single position spinning pack layout (up to 8,000 holes/m)
 - Multidelivery metering pumps
 - Double quenching chamber
 - Single slot drawing layout
 - Aerodynamic duct
 - Web forming unit (without using compressed air)
- Thermal bonding and/or Hydroentanglement
 - Finish application
 - High speed automatic winding, slitting and rewinding
 - Full recovery to the extrusion of the cut edges
- Multiple position spinning layout for higher production process continuity
 - Single quench chamber
 - Multiple ejectors drawing layout
 - Mechanical filaments distribution
 - Optimized stability of filaments characteristics
 - Balanced MD/CD tensile ratio
- Mechanical and/or thermal bonding
 - Dimensional stabilization by thermosetting
 - Binder application
 - Drying and polymerization
 - Calibration and winding

With FARE' SYSTEMS YOU GET:
Proven technology
Lower raw materials consumption
Lower energy consumption
Higher production capacity
Higher plant efficiency

FROM TODAY TO THE FUTURE

of market demand from hygienic to

BICOMPONENT LINES

Each single filament is composed by 2 polymers such as:

PP - PE
PET - PE
PET - PP
PET - PA
PLA - PE

The ratio between the 2 components is in the range from 50 - 50 to 80 - 20
Different cross sections are obtained on the basis of the shape of the spinneret's hole



SIDE BY SIDE



SHEATH CORE



SEGMENTED PIE



HOLLOW SEGEMENTED PIE



SEGMENTED SIDE BY SIDE



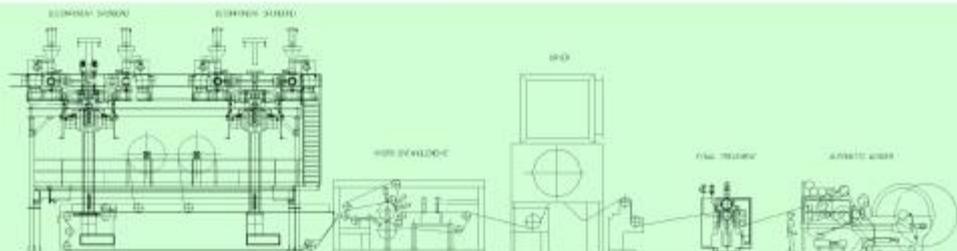
Bicomponent spunbond line

Bicomponent nonwoven from 10 gsm are produced.

Many new products are ready thanks to the bicomponents spunbond webs: from diapers to protective apparel, from customized and composites laminates to civil, agriculture and industrial applications



Bico cross sections



SS bicomponent splitted Spund Bond Line



SOLUTIONS

For all applications

FARE' realizes complete SPUNBOND and MELTBLOWN systems processing the following polymers:

- Polyolefines: PP, PE
- Polyesters: PET, CoPET, PLA
- Polyamides: PA
- Polyurethane: PU

to produce:

- Monocomponent
- Bicomponent



Multibeams line



Web forming



Meltblown head

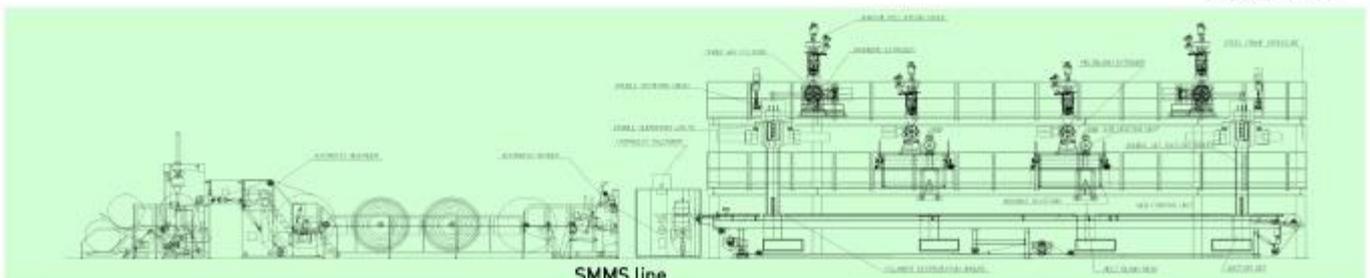


Spunbond head

Configurations available:	from S to SSSS from M to MMM from SMS to 6 beams mono and bico
Web weight	from 7 gsm to 1000 gsm
Net width:	from 1,6 m to 7,2 m

PRODUCTION RANGE		
Web width (m)	Weight (gsm)	Productivity kg/h per beam
3,2	8	700
	15	800
	50	800

FILAMENT COUNT	
Monocomponent	Polyolephines from 0,8 dtex Polyester from 1,5 to 8 dtex
Bicomponent	Sheath-core from 1,2 dtex Segmented pie from 0,05 dtex



OF SPUNBOND

technical nonwovens



FARE' realizes complete lines for Geotextiles, Waterproofing carriers and other Technical nonwovens

- Tailored equipment design
- Fabric net width up to 6 m and throughput up to 1,500 kg/h
- Fully compatibility to process either PP or PET polymer
- Use of PET flakes as alternative to virgin pellets



Technical nonwovens spunbond line



Polymer feeding

Type	Weight (gsm)	Applications
Needle punched	80—700	<ul style="list-style-type: none"> • Geotextiles • Coating substrates
Binder Impregnated	100—300	<ul style="list-style-type: none"> • Roofing Carriers • Filter media
Thermobonded	80—150	<ul style="list-style-type: none"> • Undertile roofing carriers • Batteries separators • Filter media • Cable wrapping



Extrusion system



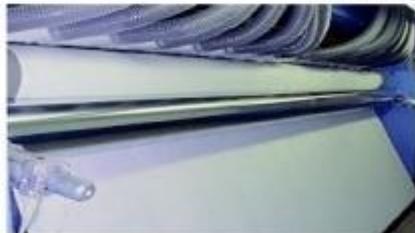
Binder application



Melt filtering



Fabric drying, and calibration



Fabric needling



Filaments quenching



Geotextiles and roofing fabrics spunbond line

Farè spunbond and meltblown systems at customer service

- Customized solutions
- Production trials in our pilot line
- Training before delivery and at the installation site
- Tele diagnosis and remote assistance
- Guaranteed spare parts supply
- Worldwide assistance



all lines are tailored to follow and satisfy customers' requests

our values:

Leadership: At FARE' S.p.A., you receive the kind of quality and service you expect from a leader. Our company is always evolving as the needs of our customers change and as new opportunities are created in the market. You can be sure that, working with FARE' S.p.A., you will enjoy the latest services, technology and developments in the industry.

Teamwork: We make it our responsibility to know you and your business. We work closely with you to ensure that the solutions we provide are tailored to meet your unique needs and challenges. We are committed to your success.

Customer Relations: At FARE' S.p.A., our highest priority is customers satisfaction. You are important to us and you can expect us to go the extra mile for your business. Superior customer service is the hallmark of FARE' S.p.A.. We are proud to serve you and work hard to earn your business.

FARE' S.p.A., where the technology is a premium !



FARE' SpA, Synthetic Fiber Processing Machinery,
Via Pastrengo 31 - 21054 Fagnano Olona (Varese) ITALY
Phone: +39 0331 617155, Fax: +39 0331 617546,
e-mail: fare@farespa.com - website: www.farespa.com