FET Company Presentation

FET

FIBRE EXTRUSION TECHNOLOGY

"Innovative Fibre Solutions"

CELEBRATING 25 YEARS

What does FET do?

FET designs, develops and manufactures extrusion equipment for technical textile material applications.

Much more than a manufacturer of equipment, however, FET's core strength lies in collaboration with high end technological customers in addressing a wide range of challenges.

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Fibre Development Centre

FET has invested heavily and completed construction and fit-out of its new purpose-built Fibre Development Centre (FDC) in 2023.

This modern two-storey development provides state-of-the-art facilities and the resident equipment reflects the wide range of fibre extrusion systems offered by FET.

Clients frequently spend several days on site participating in development trials and technical sales meetings, so the new Centre is designed to make their stay even more efficient and comfortable.

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Fibre Development Centre

Resident equipment includes:

Multifilament

- Equipment: Uni-component or bi-component
- Bi-component: core/sheath, side by side, side by side by side

Monofilament

- Equipment: Uni-component or bi-component
- Bi-component: core/sheath

Melt blown

Available soon, meltblown nonwovens system.

Coming soon - **Wet spinning and gel spinning** systems will be available in late 2023.

Testing Equipment - various

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FET's business ethos

Our customers believe strongly in the importance of R&D and innovation. FET fully shares this conviction.

We understand the importance of building up close relationships with different individuals, intermediaries and cultures, and can provide global reference installation sites. We deal on a regular basis with customers on all levels of responsibility, from CEO's and General Managers, through to key laboratory and R&D personnel.

It is in the nature of our business to encounter an enormous variety of unique requests from our customers and we rarely fail in finding a solution.

The FET Fibre Development Centre plays a key part in the successful resolution of such challenges.

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Applications

FET customers manufacture high value textile materials, in demanding and precise environments.

They expect us to provide yarn and fibre engineering knowhow and extrusion equipment which will allow them to consistently produce fibres of the highest quality and to be able to meet required regulatory standards.

Typical Applications:

- Biomedical materials, such as resorbable polymers for use in medical devices
- Specialized novel fibres from exotic and difficult to process polymers
- Sustainable polymers, biodegradable and composting materials
- Melt spun fibres and yarns and textiles for a wide range of composites
- Functional textile materials, provided by polymer formulation or additives

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FET activities

FET provides process technology and innovative melt and wet spinning solutions for high value fibres:

- Developing technical fibre processing solutions
- Unrivalled expertise in equipment design and manufacture
- Customer focused R & D
- Promoting sustainability through innovation
- Highly experienced with ever-growing global reference installations
- On-site installation & commissioning

Sustainability through Innovation

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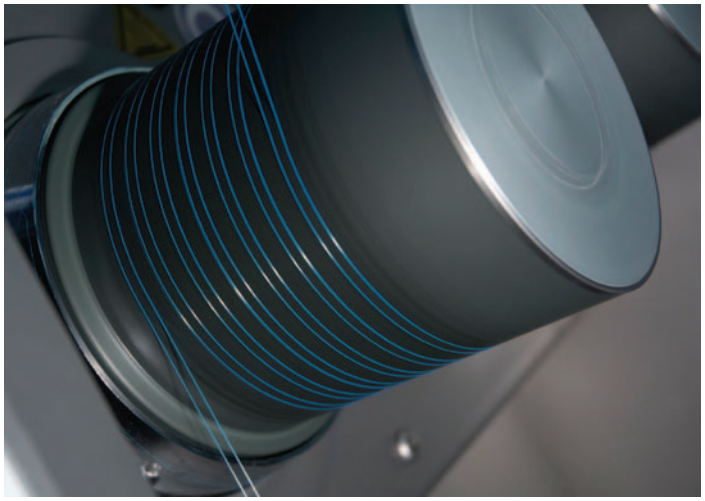
Examples of technical successes

For FET, no two challenges are the same because our customers and their requirements vary enormously.

We work closely with clients covering more than 35 countries, seeking solutions in multifilament, monofilament, nonwoven and wet spun formats.

- Medical – resorbables, sutures, medical devices
- Manufacturing – 3D printing, filtration
- Textiles – high performance clothing and footwear
- Aerospace & automotive – composite materials

Many of these examples are promoting the use of sustainable fibres and involve extensive trials and evaluation in FET's in-house Fibre Development Centre.



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FET and sustainability

In recent years, there has been an increasing and welcome trend towards global environmentalism and sustainability in all its forms:

- Sustainability has been embraced by textile and yarn manufacturers worldwide
- FET has led the way in meeting these challenges by working closely with its clients

Sustainability through Innovation

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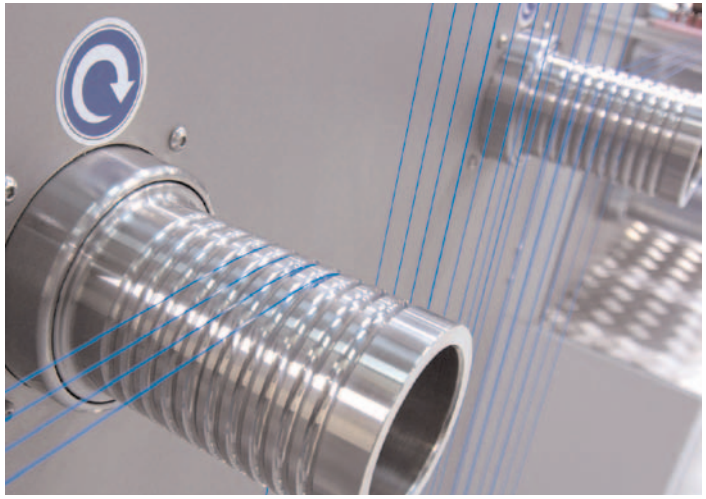
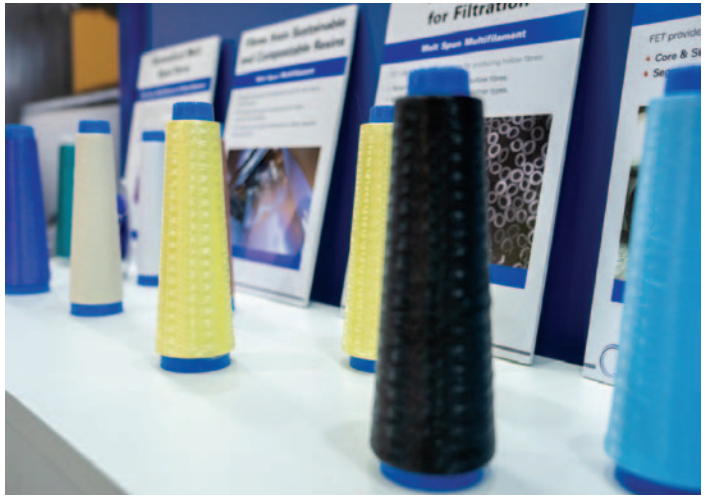
FET's role in sustainable practices

- FET is at the forefront of innovation to promote sustainability in its marketplace
- R&D and melt spinning systems are widely used to enable the development of ground-breaking technical fibres
- Frequently these applications allow recyclability, polymer source and end-use criteria.
- This in turn minimises long term environmental impact globally





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Biomedical sector

FET operates successfully in many industries, but has a particularly strong reputation in the biomedical sector for melt spinning medical grade textile materials from synthetic resorbable polymers, used in the manufacture of sutures and other medical devices.

- Multifilament, monofilament and non-woven structures
- Polymers used include PGA, PLLA and their copolymers
- Technical collaboration with synthetic absorbable polymer suppliers
- Used for sutures, skin substitutes, adhesion barriers, tendon repair etc

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Communication

Good communication is key to FET's success.

As a small, specialist provider, it is essential that FET is a good communicator. We sell throughout the world to blue chip and niche organisations, a process that entails identifying, reaching out and maintaining solid, long term business relationships.

- We establish contact with new and existing clients by regularly attending key technical exhibitions, such as Techtextil and ITMA
- Press releases are regularly distributed to leading trade journals to inform customers in the industry of latest developments
- The FET website is comprehensive and constantly updated to remain relevant and is fully search engine optimised
- We also produce and maintain a range of quality technical information material for client dissemination, such as e-brochures, presentations and customer references

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FET product range

All FET systems can be tailored to individual client's needs and are available in both pilot and production scale.

Our product specifications are capable of processing demanding polymers and can meet precise end product specifications.

- Melt spinning systems for multifilament and monofilaments
- Melt blown systems for non-woven structures
- Wet spinning systems for filaments and fibres

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The FET-100 series

The FET-100 is the ideal solution for R&D and flexible production requirements, allowing for easy and fast conversion between material formats.

It configures to all combinations of multifilament, monofilament and melt spinning of nonwoven structures as required.

FET-100 Extrusion is designed to provide melt spinning capacity to any one of the three downstream process options.

FET-101 Multifilament - bespoke laboratory and pilot melt spinning systems for continuous multifilament applications.

FET-102 Nonwoven for melt spinning nonwoven material, including viscous materials normally not appropriate for the melt blowing process.

FET-103 Monofilament can also provide specialist laboratory and pilot melt spinning systems for monofilament applications.

"High Capability, Multifunctional, Cost-Effective and Flexible"

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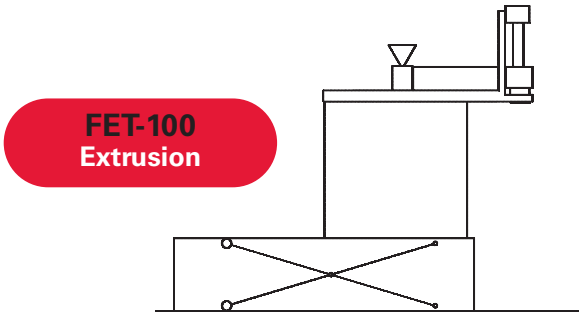
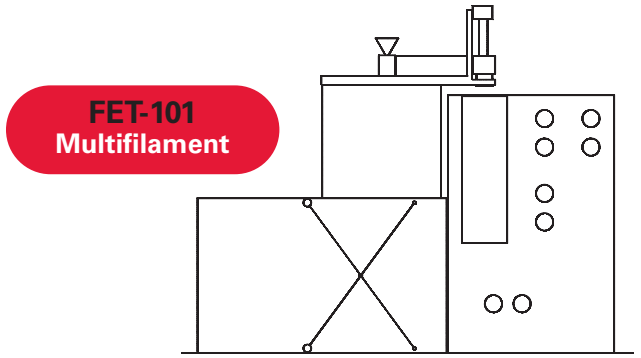
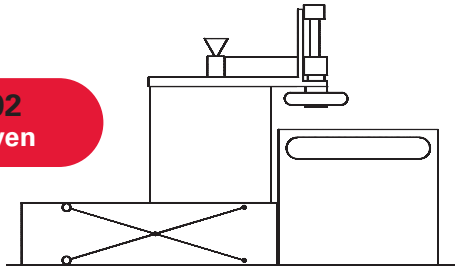
FET-100 schematic

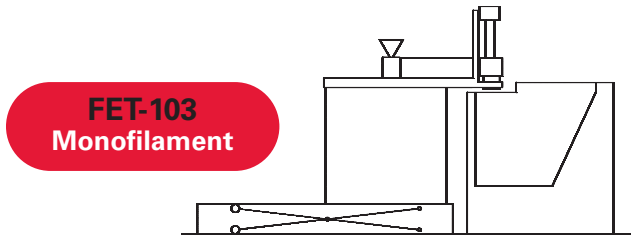
THE FET EXTRUSION MODULE...

Multiple Process Options From One Extruder...









Extrusion Module Options:

- Multi-polymer capability
- Bi-component
- Tri-component
- Corrosion resistant
- High temperatures

FET-100 Configurations

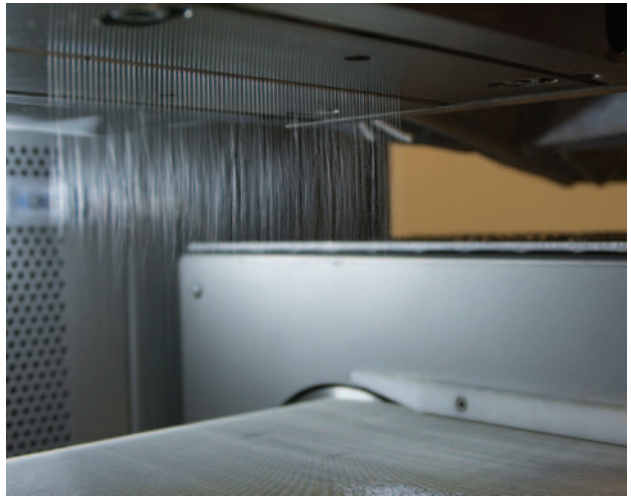
FET-101 Multifilament

FET-100 and FET-101 Multifilament

FET-103 Monofilament

FET-100 Extrusion integrated with FET-103 Monofilament

FET-102 Nonwoven



FET-100 Extrusion integrated with FET-102 Nonwoven and FET-101 Multifilament

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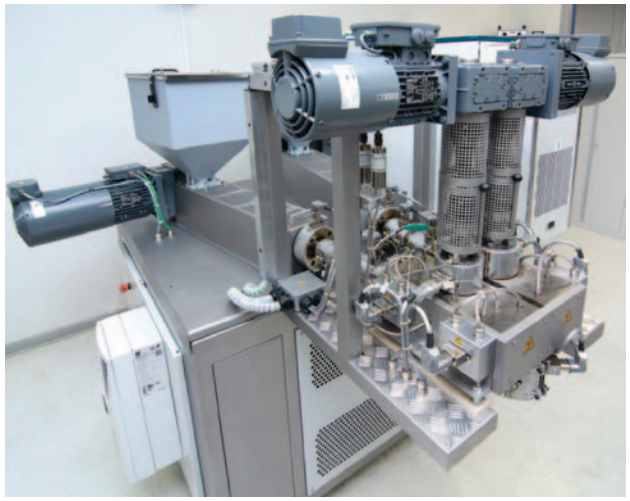
Other FET systems

Laboratory & Pilot Continuous Filament Systems

Continuous filament extrusion systems are supplied as self-contained units for ease of installation in a laboratory / small scale process evaluation environment.

FET Bi & Tri-Component Melt Spinning Systems



FET produces high technology bi and tri component extrusion systems for the production of conjugate technical filaments.

FET-200 Laboratory, Pilot & small scale production Wet Spinning Systems

Where melt spinning cannot succeed, the FET-200 Wet Spinning Systems may be used for a variety of solvent and polymer combinations.

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Company Location

FET is located close to major road, rail and air links in the heart of the United Kingdom.

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