



FIBRE PROCESSING TECHNOLOGY

TATHAM LTD.
FARNHAM ROAD, BRADFORD, WEST YORKSHIRE.
BD7 3JG. UK
Email: sales@tatham-uk.com
Tel: +44 7899 998277

ADVANCED FIBRE PROCESSING TECHNOLOGY FOR COMPOSITES



A leading textile engineering company with
over 150 years' experience in specialist
fibre processing systems

Composites 
Trade Association
Member Company



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ADVANCED FIBRE PROCESSING TECHNOLOGY FOR COMPOSITES

Turn-key production lines for nonwoven mats from a wide range of fibres

- Carbon Fibre
- Reclaimed/recycled carbon fibre
- Hemp & Flax
- Glass fibre
- PP or PET
- Hybrid combinations for biocomposites

Bast fibre (Hemp & flax) processing machinery for biocomposites

- Decortication
- Cleaning
- Mat formation
- Yarn formation

Laboratory nonwoven equipment suitable for R&D and academic institutes

- Fibre preparation
- Carding 300-600mm
- Crosslapper
- Needleloom 500-1000mm

Specialist processing technology developed for carbon fibres

- Fibre orientation to suit application (isotropic, cross-laid, parallel-laid)
- Needle-punching technology
- Air lay technology
- Innovative fibre opening systems

Other textile machinery

- Spinning
- Winding
- Calendering/Thermal bonding
- Needling
- Special purpose machinery

Manufacturer of perforation equipment for release films

- Pinned tooling
- Hot & Cold perforation machines
- Complete production lines with unwind/rewind

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ITMA 2019

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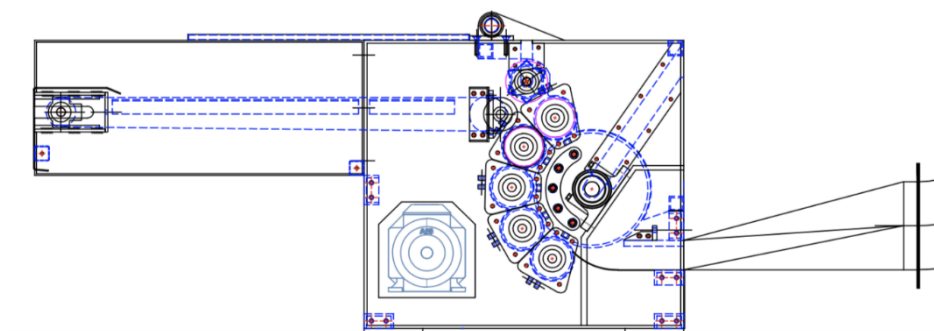
ADVANCED FIBRE PROCESSING TECHNOLOGY FOR COMPOSITES

SPECIALIST CARBON FIBRE PROCESSING TECHNOLOGY

All machinery is designed and manufactured to suit the application.

Carbon fibre opening

To open scrap or post-pyrolysis fibres. The technology offers a relatively gentle opening action so it is possible to maintain the fibre length.



Technology

- Carbon fibre opener
- Dust collection systems

Application areas

- Recycling carbon fibre
- Pre-Opening fibres prior to Carding (Nonwoven mat production)



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Telephone: +44 (0) 7899 998277
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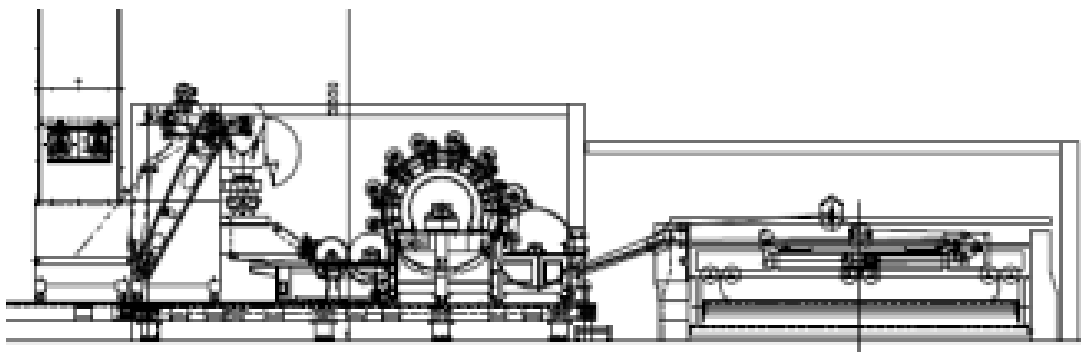
Turn-key production lines for nonwoven mats from a wide range of fibres

- Carbon Fibre
- Reclaimed/recycled carbon fibre
- Hemp & Flax for biocomposites
- Thermoplastics
- Hybrid combinations
- Glass fibre



Technology

- Web formation (Carding)
- Fibre orientation options to suit application
- Cross-laid product (Crosslapper)
- Parallel-laid product (Straight-lay folder)
- Mechanical bonding (Needle-punching)
- Air-lay systems
- Hybrid combinations to deliver either cross-laid or air-laid from the same line



Application areas

- Composite manufacture for cost-effective light weighting
- Specialist fibre orientation requirements
- R&D or academic institutes



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Hemp fibre processing technology

Processing equipment for bast fibres (Hemp Flax Nettle)

- Decortication equipment
- Cleaning equipment
- Hurd/Shive processing
- Baling systems
- Nonwoven production line for mat formation
- Fibre blending system for yarn production

Technology

- Decorticating & Cleaning (to maintain fibre length for yarn production)
- Web formation (Carding)
- Cross-laid product (Crosslapper)
- Mechanical bonding (Needle-punching)
- Baling technology

Application areas

Bast fibre

- Insulation
- Textile (rope, netting, canvas, carpet)
- Nonwoven
- Apparel (with additional cleaning line)
- Automotive
- Building materials (hemcrete)
- Bio-composites

Shive (hurd)

- Animal bedding
- Briquettes
- Mulch
- Fibre board
- Insulation products
- Concrete additive (hemcrete)

Stalk

- Biofuel/ethanol
- Paper products (Cardboard, Filters)



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Company information

Tatham is a textile engineering company based in Bradford UK, with over 150 years' experience in the design, manufacture and installation of fibre processing equipment worldwide.

All machinery is manufactured in the UK to strict engineering standards. All electrical panels are built in-house using standard stock items. All software is designed and written in-house.

Tatham offers innovative technology to recycle carbon fibres into nonwovens. Alternative web forming techniques are available depending on the final product characteristics.

Recycling carbon fibres is becoming an important part of the composite industry. Tatham has installed numerous lines to convert reclaimed carbon fibres into nonwoven mats.

The dry resin-free carbon fibre is processed through a specialist production line from Tatham. Specialist processing technology developed for carbon fibres

- Fibre orientation to suit application (isotropic, cross-laid, parallel-laid)
- Needle-punching technology
- Air lay technology
- Innovative fibre opening systems
- Turn-key production lines



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