



Fibre Assemblies: Slivers, Rovings, Yarns

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Definition

- **Fibre Assembly**
 - sliver (top)
 - roving
 - yarn
- **Important Fibre Features**
 - Fibre Leading Ends (FLE)
 - Fibre Trailing Ends (FTE)
 - Length variation
 - affects drafting
 - Diameter
 - affects number of fibres in cross-section

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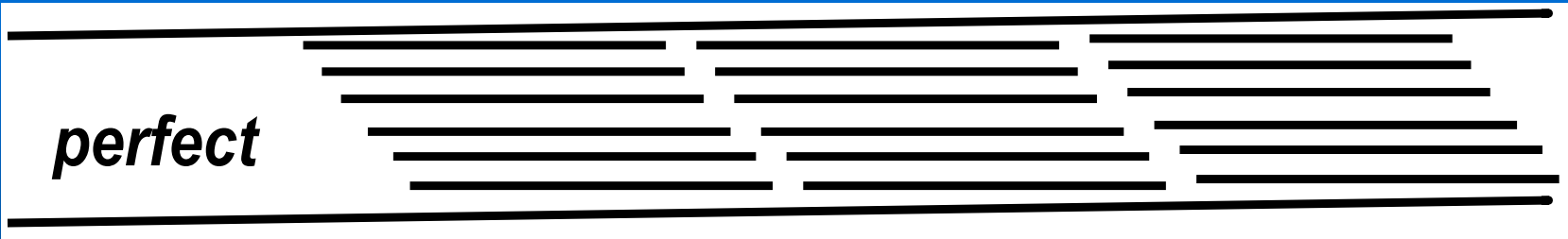
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Perfect sliver

- FTE always joins FLE
 - perfect fibres
 - same diameter & length
 - always the same number of fibres in cross section
 - IMPOSSIBLE to achieve
 - USELESS in practice

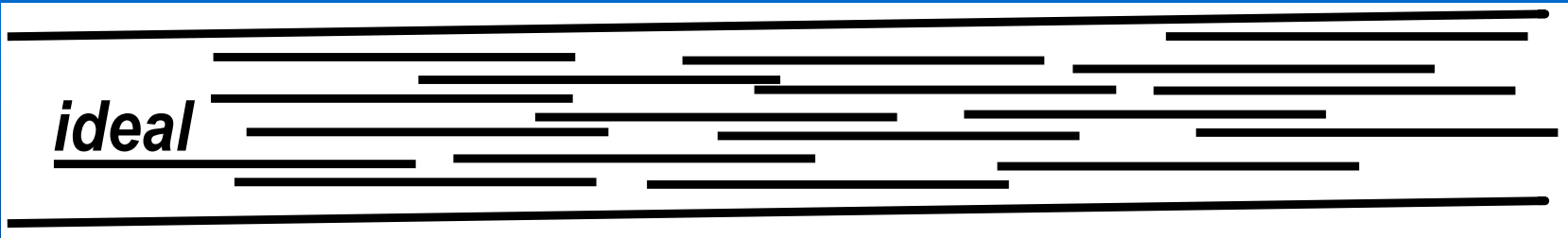


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Ideal Sliver

- **RANDOM FLE**
 - NOT always the same number of fibres in cross section
 - distribution of FLE
 - laws of probability
 - random distribution
 - **IMPOSSIBLE** to achieve with current technology

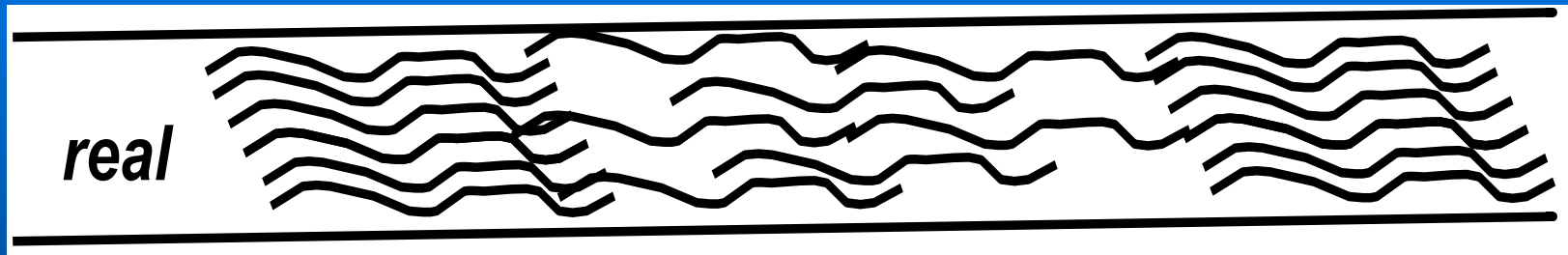


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Real sliver

- random FLE (sometimes)
- non-random groups of FLE
 - DRAFTING WAVES
- real fibres
 - uneven diameter
 - uneven length



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