**Advantages:**
- Zero production waste - no downtime during bobbin change-over
- Metered yarn length
- Highest operating safety - yarn is caught and cut at rear of bobbin
- Adjustable yarn reserve with minimum yarn tail at bobbin change
- Designed for economical use of standard cores
- Minimum maintenance expenditures

**Market segments:**
- High performance fibers, multifilaments, coated or twisted yarns

**Technology:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>360XE HPF</th>
<th>380XE HPF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>Frequency controlled</td>
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</tr>
<tr>
<td>Frame</td>
<td>1, 2 or 3-tier</td>
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</tr>
<tr>
<td>Titer</td>
<td>150 to 20000 dtex *)</td>
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</tr>
<tr>
<td>Maximum winding speed</td>
<td>800 m/min</td>
<td>1500 m/min</td>
</tr>
<tr>
<td>Winding ratio</td>
<td>Electronic</td>
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</tr>
<tr>
<td>Traverse length</td>
<td>190, 200, 250, 260 or 300 mm *)</td>
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<tr>
<td>Maximum package diameter</td>
<td>320 mm</td>
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</tr>
<tr>
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<td>82,55 or 94 mm *)</td>
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*Combination of all maximum values is not possible

*) others on request

**Features:**
- Quick and efficient product changes by electronic data input of all winding parameters
- Convenient bobbin handling via optimum parking position of the full bobbin
- Electronically controlled winding ratio
- Automatic bobbin change-over on reaching one of the following criteria: yarn length, winding time, package weight, package diameter, periodic cycle or external signal
- Pneumatic mandrel with bobbin push-off device
- Alarm management (yarn break, package diameter)

**Options:**
- Automatic yarn suction device
- Yarn cutter
- Pull Roll (godet) per winding head in connection with preceeding processes possible
- On-line yarn diameter monitoring
- Interface to DCS (Distributed Control System)
- Special coating of yarn touching elements
- Adaptable to an automatic bobbin handling system

**BOBBIN HANDLING**

The TWINSTAR II is in combination with an automatic bobbin handling and transport system.

**Handling-System:**
- Easily integrated into existing installations
- No safety enclosure necessary (operator protection by non-contact safety laser scanner)
- Bobbin transfer to creel cart or other bobbin transport systems available
- Customer bobbin data transfer via integrated winder interface
- Multiple tube lengths possible within one system
- Customized solutions available
- Interface to DCS (Distributed Control System) available

In particular, economic material processing requires repeatable material length and higher package weights which exceed the capacities of operators. Materials of increasingly high tenacity can be a safety risk for the operators. The TWINSTAR II can be provided with a handling and transport system tailor-made for your specific requirements, which solves these problems for you.
**Advantages:**
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**TWINSTAR II 360XE / 380XE HPF**

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