

TAPES / MONOFILAMENTS · COATING



LinStar

Automatic Precision Cross Winder
with Flexible Traverse



WINDING SOLUTIONS



LinStar

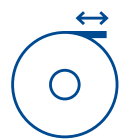
The automatic precision cross winder LinStar excels with outstanding flexibility and versatility. In business areas such as the manufacture of extruded tapes and monofilaments, LinStar is already a well-known performer on its way to becoming the industry standard. But now other sectors are also discovering the linear driven cross winder. This has made LinStar the leading winding solution for dipping processes. With individually driven godets, external quality sensors and a processing speed of up to 600 m/min, LinStar is the trend-setting winder for coating processes. Its adaptability for an exceedingly diverse range of production requirements makes LinStar the ideal winder solution for modern manufacturing companies.



Automatic bobbin changeover on the basis of selectable criteria – with no waste and no downtimes



Flexible Traverse with linear drive: Providing full adjustability for traverse length, bobbin shape, bobbin positioning and yarn reserve



Adjustable yarn reserve with defined yarn end



Ready for automation and advanced data communication via OPC UA





600 m/min



200 - 300 mm



320 mm

TECHNICAL DATA

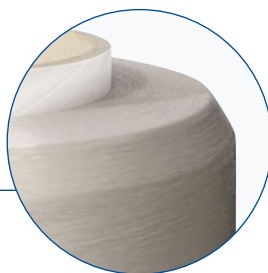
Winding technology	Precision cross winding
Drive	Frequency-controlled
Frame	2- or 3-tier
Titer	150 to 4,500 dtex*
Winding speed	Up to 600 m/min
Winding ratio	Electronic
Traverse length	Adjustable from 200 to 300 mm*
Package diameter	Max. 320 mm
Tube inside diameter	82.55, 90 or 94 mm*
Tube length	218, 290 or 330 mm*
Package weight	Max. 20 kg*
Yarn tension	30 to 350 cN
Number of ends per winding head	Single or multiple

Combination of all maximum values is not possible.

* Others on request

THE PERFECT BOBBIN

The LinStar produces bobbins with either straight or tapered edges with variable traverse lengths.



The slightly tapered edges help to converse material in subsequent process steps and to increase efficiency.

The result:

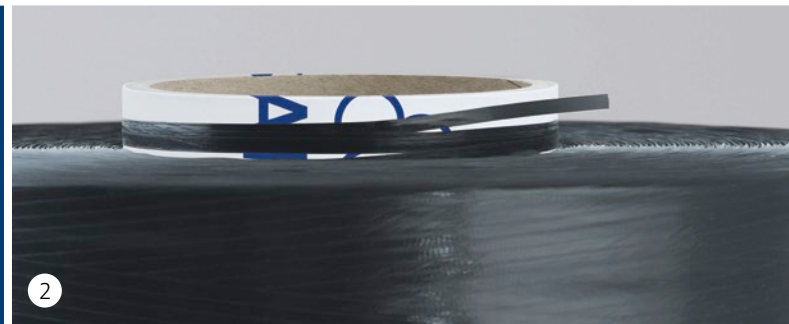
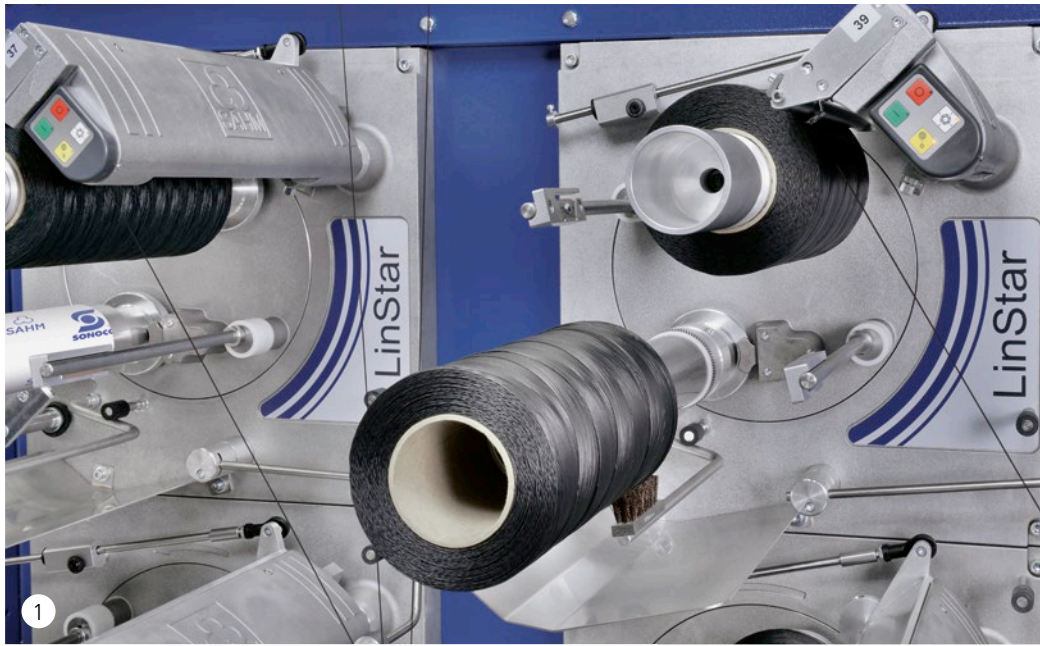
Lower waste and higher productivity.

APPLICATIONS

- Tapes
- Coated or dipped yarns
- Monofilaments
- Artificial grass yarns

Others on request





● FEATURES ○ OPTIONS

- Flexible Traverse with linear drive: Providing full adjustability for traverse length, bobbin shape, bobbin positioning and yarn reserve ④

- Automatic bobbin changeover on reaching one of the following criteria: yarn length, winding time, package diameter or external signal

- Adjustable, defined yarn reserve after automatic bobbin changeover ②

- Pneumatic mandrel

- Central process control unit (HMI touch screen) for input, display and storage of process and machine parameters

- Alarm management (e.g. yarn break, bobbin changeover) and error history

- Bobbin push-off device with parking position: During automatic bobbin changeover, the finished bobbin is pushed into a parking position while the next bobbin is already being wound – perfect for automated doffing and higher flexibility for manual doffing ①

- Pull roll (godet): One godet per winding head pulling the yarn from the preprocess ③

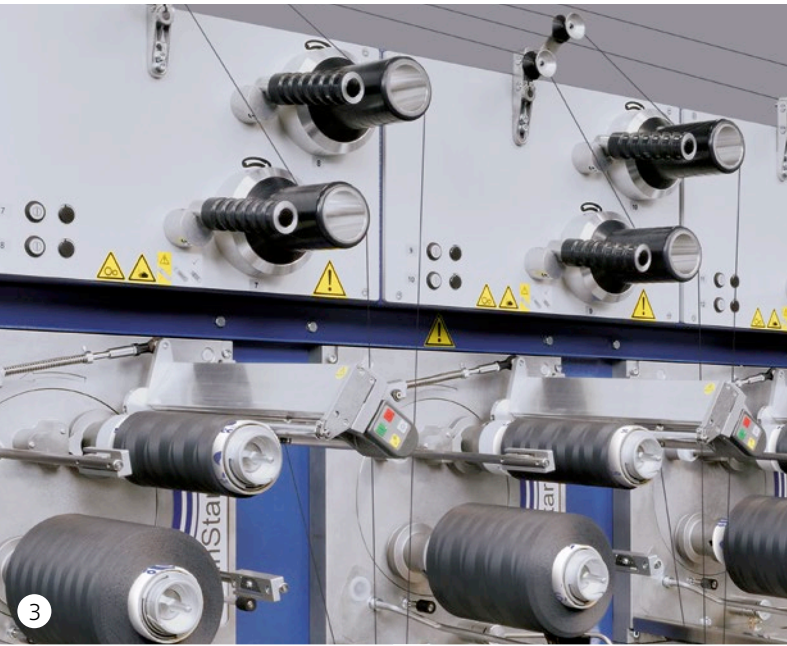
- Quality sensor: Monitoring of yarn thickness and additional parameters of material quality

- Interface to DCS (Distributed Control System) or OPC UA data exchange system

- Automation: Adaptable to different handling systems ⑤

- Smart View: Monitoring application to track the production of each winder ⑥

- Remote Support: Remote access and support for diagnosis and guidance during troubleshooting



ADVANTAGES

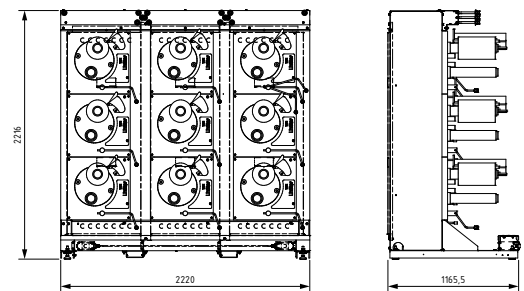
- Maximum adaptability to diverse production requirements thanks to Flexible Traverse with linear drive
- High process reliability for downstream operations through use of tapered edges
- Bobbin changeover with no waste and no downtimes
- Metered yarn length
- Bobbin changeover reliability of 99.8 %
- Quick and efficient product changes by electronic data input of all winding parameters
- Adaptable to an automatic bobbin handling system
- Minimum maintenance expenditures (e.g. no lubricants)
- Minimum energy consumption
- Low noise level

CONFIGURATION OPTIONS

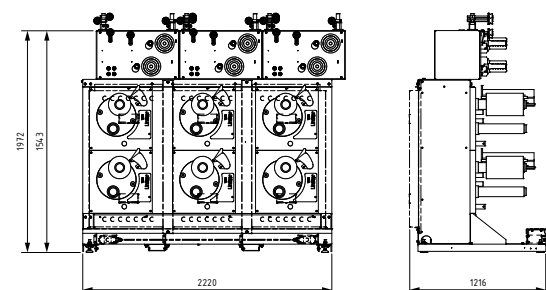
- Face-to-face version
- Back-to-back version
- Single line version

FRAME UNITS (EXAMPLES)

3-tier (standard with 3 x 3 winding heads)



2-tier (with 2 x 3 winding heads)



Enlarging our focus.
For exciting solutions.

Constructing winders that are among the world's best requires a comprehensive approach to systems and processes. This know-how is a special strength of SAHM. Our sales team, our partners, our agents and, not least, our development department engage in direct dialogue with our customers, seeking to work out the best possible solutions for their individual requirements.

The mutual exchange of know-how and experience, always on an equal footing, opens up new perspectives and new possibilities for all parties involved. Out of this trusting co-operation arise pioneering technological developments which make our customers' processes simpler and more efficient – thereby giving you a competitive edge.



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