

CARBON FIBERS/COMPOSITES

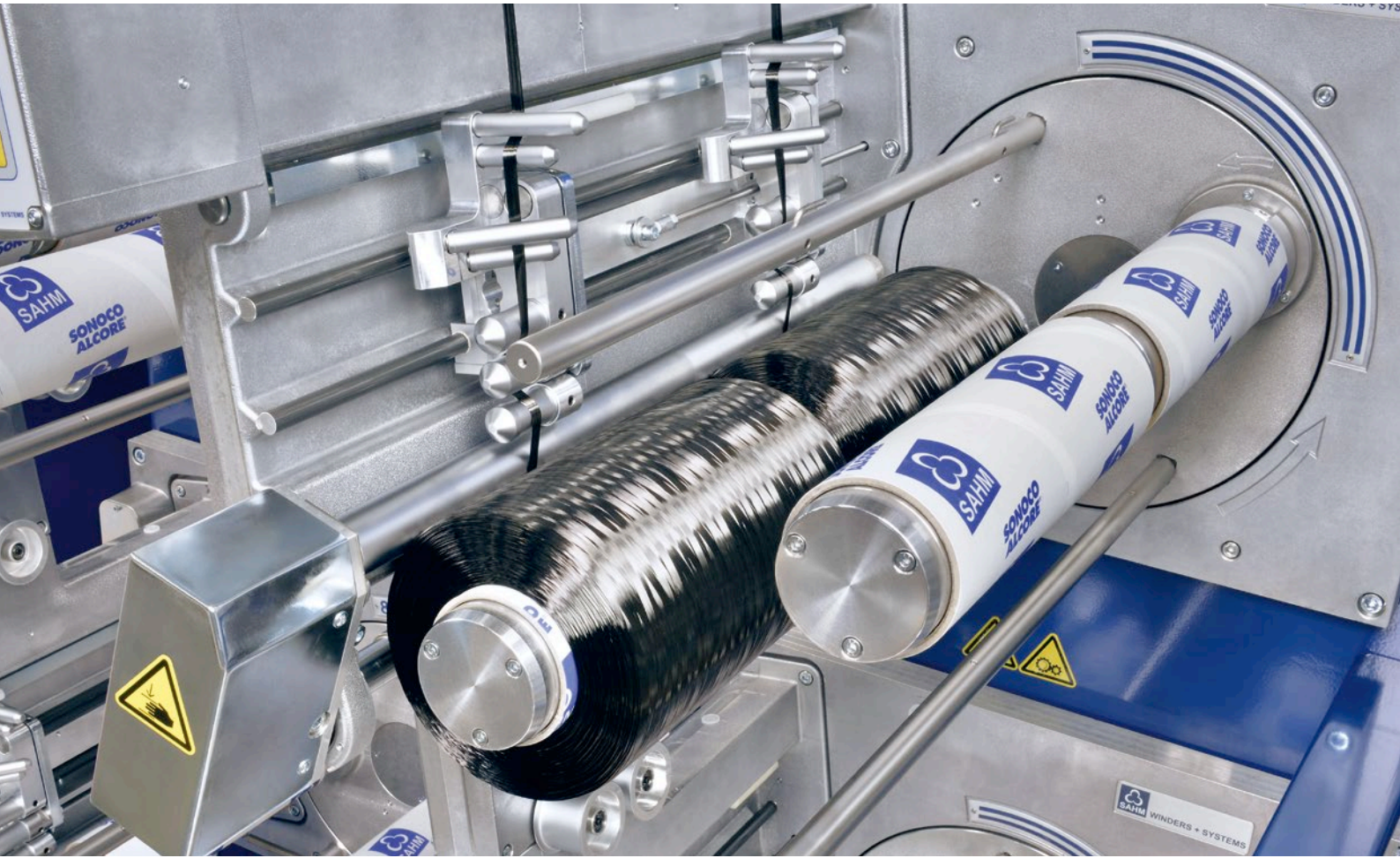


CarbonStar 2-cop

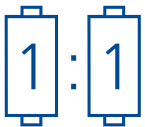
Automatic Precision Cross Winder



WINDERS + SYSTEMS
a member of Starlinger Group



The automatic precision cross winder **CarbonStar 2-cop** maximizes efficiency by producing two bobbins (each up to 20 kg) on one winding head. Requiring only a minimum amount of space, the winder has very low maintenance costs and features metered yarn length with zero production waste – plus no downtime during bobbin changeovers.



Two exact length, high quality spools with the patented diameter control



Highest operating safety due to automatic change-over



Bobbin changeover reliability of 99.8 %

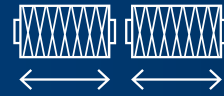


Energy savings from the latest drive technology

CarbonStar 2-cop



2-20 m/min



2 x 250 mm

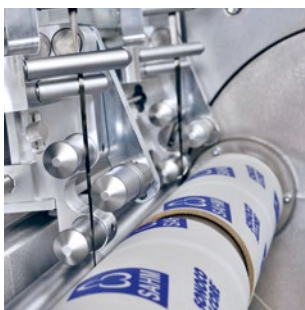


320 mm

TECHNICAL DATA

Winding technology	Precision cross winding
Drive	Frequency-controlled
Frame	1-, 2- and 3-tier
Titer	3 to 60 K (others on request)
Winding speed	2 to 20 m/min
Winding ratio	Electronic
Traverse length	2 x 250 mm
Package diameter	Max. 320 mm
Package weight	Up to 20 kg each bobbin
Tube inside diameter	76.2 mm
Tube length	280 mm
Yarn tension	Electronically adjustable

Combination of all maximum values is not possible.



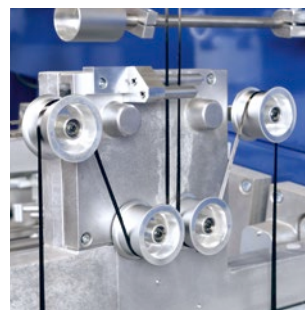
Yarn guide

The flexible roller system can handle a material range from 3K to 60K. Opening the middle roller holder allows for easy thread up.



Yarn catching and cutting system

The catching and cutting system enables adjustment of the tail length and improves safety standards for operators.



Separate tension control

Two dancer arms allow the winder to control tension independently for each bobbin and compensates tension differences up to 10%, ensuring consistent bobbin quality.

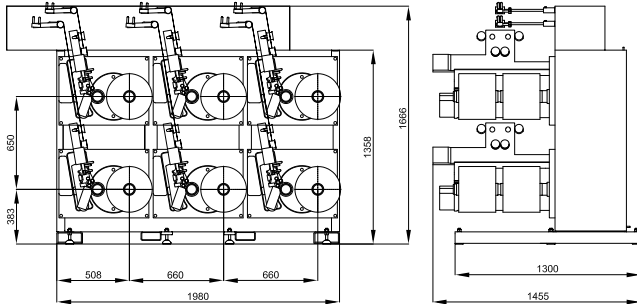


Pneumatic spindles

Pneumatic spindles with end stops for both tubes guarantees that bobbins are always centered.

CarbonStar 2-cop

Automatic Precision Cross Winder



FRAME UNIT (standard with 6 winding heads – q wind)

APPLICATIONS

- Carbon fibers
- Specific towpregs

● FEATURES ○ OPTIONS

- Automatic bobbin changeover on reaching one of the following criteria: yarn length, winding time, package weight, package diameter or external signal
- Quick and efficient product changes by electronic data input of all winding parameters
- Electronically controlled winding ratio
- Central process control unit (HMI 12" touch screen) for input, display and storage of process and machine parameters
- Tube inside diameter (76.2 mm) tolerance + 0.5 mm possible
- HMI 15" touch screen with high capacity processor for SQL database
- Interface to DCS
- Frame unit with 9 heads
- Label printing system

Design, configuration and scope of supply are subject to change without notice and errors are excepted. Drawings/photos not binding.

Carbon High Tech.
Made with
SAHM Winding Technology.



The production of carbon fibers is complex and costly. All the more important that customers receive these fibers in perfect condition for further processing steps.

The statement "Made with SAHM Winding Technology" comes with our promise that all your fibers will be wound with the highest possible precision for a positive impact on the quality of the final material.

Put your trust in more than 70 years of experience and proven expertise from the technology leader.

Georg Sahn GmbH & Co. KG
Sudetenlandstrasse 33, 37269 Eschwege, Germany
T: +49 5651 804-0, F: +49 5651 13620
E: info@sahmwinder.com, www.sahmwinder.com

GERMAN 
Technology