

CARBON FIBERS



# SAHM T1 RackWinder

One-ton system winder



WINDING SOLUTIONS





The **T1 RackWinder** is part of the revolutionary SAHM T1 System that reduces downtime in your carbon fiber processes and increases production efficiency by up to 92 %. The T1 RackWinder winds the sensitive precursor material with high precision into bobbins of up to one ton.



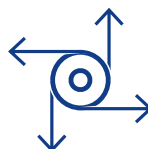
Fast changeovers



Quality Control Management  
with NFC tags



Easy shipping of  
T1 MultiRacks



Flexible winding concept

# SAHM T1 RackWinder



1,000 kg



900 mm



1,500 mm

## TECHNICAL DATA

Winding technology	Precision cross winding
Drive	Frequency inverter-controlled
Frame	1-tier
Titer	12 to 60 K (others on request)
Winding speed	Up to 150 m/min for wet spinning, up to 600 m/min for air-gap spinning (others on request), 0 to 20 m/min for unwinding
Winding ratio	Electronic
Traverse length	Max. 900 mm
Package diameter	Max. 1,500 mm
Start diameter	600 mm
Package weight	Max. 1.2 ton (depends on density)
Rack dimensions	H x L x W: 1,700 mm x 1,700 mm x 1,150 mm

Combination of all maximum values is not possible.



### T1 MultiRack

The T1 MultiRack's big tube provides a large deflection radius, resulting in extremely stable packages and reduced material width variations. Its robust steel frame protects the sensitive PAN material during transport and storage. For compliance with quality standards, each MultiRack is equipped with NFC technology.



### Moving dancer unit

The movable dancer unit ensures that the material is always guided at a constant angle for every bobbin diameter. This optimized material handling protects the sensitive precursor material and reduces filament breakage.



### Self-aligning bail roller technology

Our new motorized bail roller adjustment technology allows the bail roller to automatically align itself to the bobbin with a tolerance of zero. The resulting surface is very smooth and provides a perfect winding result.

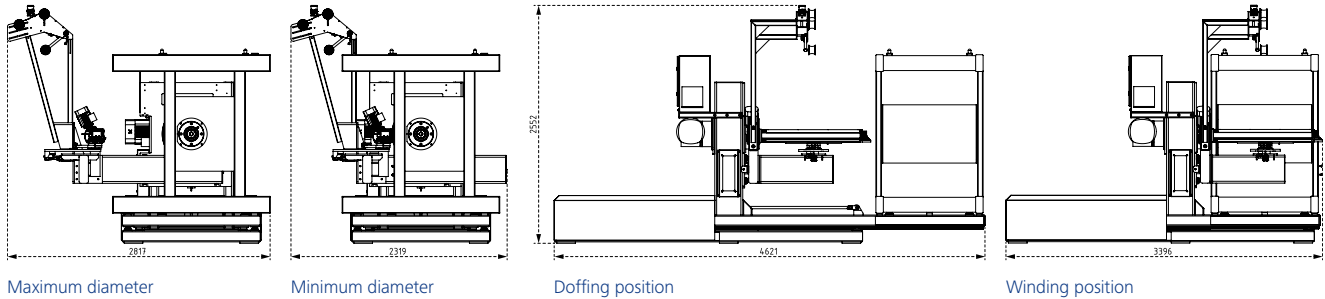


### Latest HMI technology

T1 RackWinders are controlled with our latest user-friendly HMI technology, which communicates with the winder via current Ethernet standards.

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## APPLICATIONS

- Wet spinning and air-gap spinning
- Precursor yarns

## FEATURES OPTIONS

- Electronically controlled winding ratio
- Central process control unit for input, display and storage of process and machine parameters
- A/C motor-driven and tension-controlled winding and unwinding on creel side
- Easy thread up function with catch and cut function
- Pneumatic doffing system for T1 MultiRack during changeover
- Special traverse system for two selectable traverse widths for rack winding and for tube winding (between 900 mm and 750 mm)
- Automatic robot system for handling racks on winding, storage and on creel side

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

## SAHM T1 System.

A new era for carbon fiber manufacturing.



The SAHM T1 System is a completely new concept for handling materials in upstream carbon fiber processes. It uses bobbins with one ton of precursor material which results in significantly fewer oven stops, making it possible to achieve a tripling of production output while at the same time reducing waste.

The T1 System, available exclusively from SAHM, is protected by a worldwide patent.



# T1

## A NEW ERA

FOR CARBON FIBER MANUFACTURING



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