

power-heat-set

The perfect solution for every customer!

Automatic Winder

X-Wind Pro 1.0 - 3Dxx L/R

MATERIAL FLOW / PROCESS

Following the heatsetting process, the winder winds the yarn optimally back onto the packages and communicates independently with the heatsetting unit in perfect symbiosis – two winders for the GVA, one for the HiPerSet.

Individual settings (yarn length per package, yarn type, duration of the heatsetting process, etc.) allow the winder to be used as required.

Up to 20 bobbins can be wound on each of the three decks. When the required length is reached, doffing is automatically initiated.

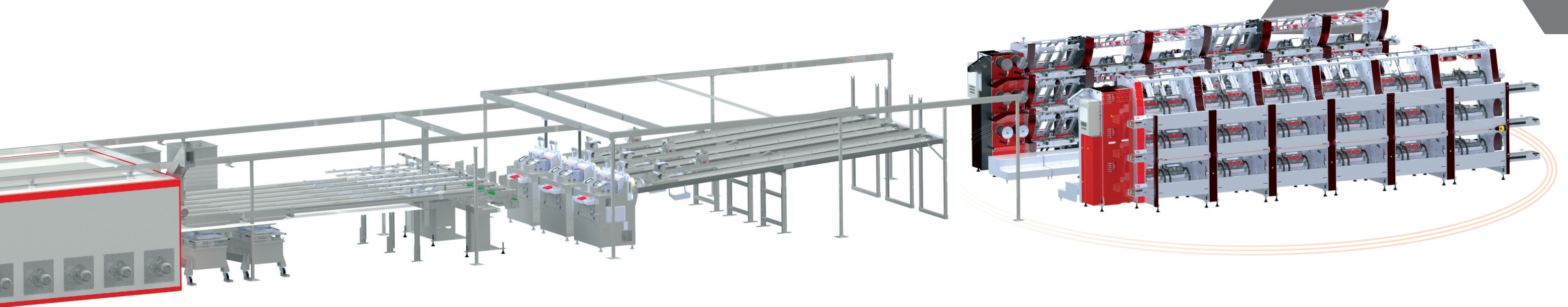
For a flexible setup, the X-Wind Pro 1.0 is available as right-hand or left-hand configuration, depending on the customers' individual requirements. The winder can also be ordered in different versions (a different number of winding segments.)

TECHNICAL DATA

Material	PP, PA & PES BCF yarns – spun yarns
	HiPerSet with 1 winder: 18-60
No. of Ends	GVA with 2 winders: 36 (2x18)-96 (2x48)
	Others on request
Speed	Up to 700 m /min.
Noise	Continuous sound pressure level 100dB
Operating Pressure	6 bar

AUTOMATIC WINDER

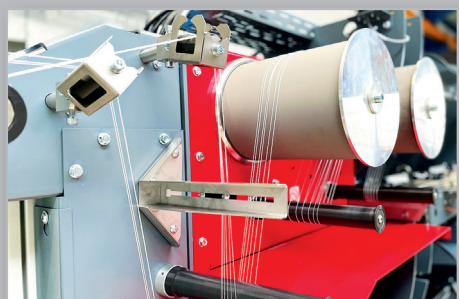
X-WIND PRO 1.0



1

PREPARATION / THREADING

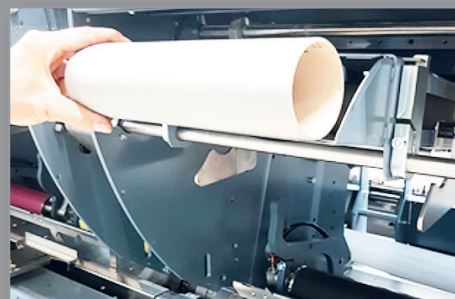
The yarn coming from the heatset line is fed into the winder via the overfeed rolls and divided onto 3 levels (decks).



2

MAGAZINE LOADING

Before starting and during winding, the magazines must be loaded with up to 8 empty tubes.



3

STARTING THE WINDING PROCESS

When all yarn ends of a deck are threaded, the winder is started. All necessary settings for the winding process are made using the touch screen of the operating panel.



4

DOFFING PROCESS

After reaching the set package length, doffing is initiated. The fully wound package is ejected and transported to the end of the winder by the conveyor belt.



MACHINE DESIGN

WINDING SEGMENT

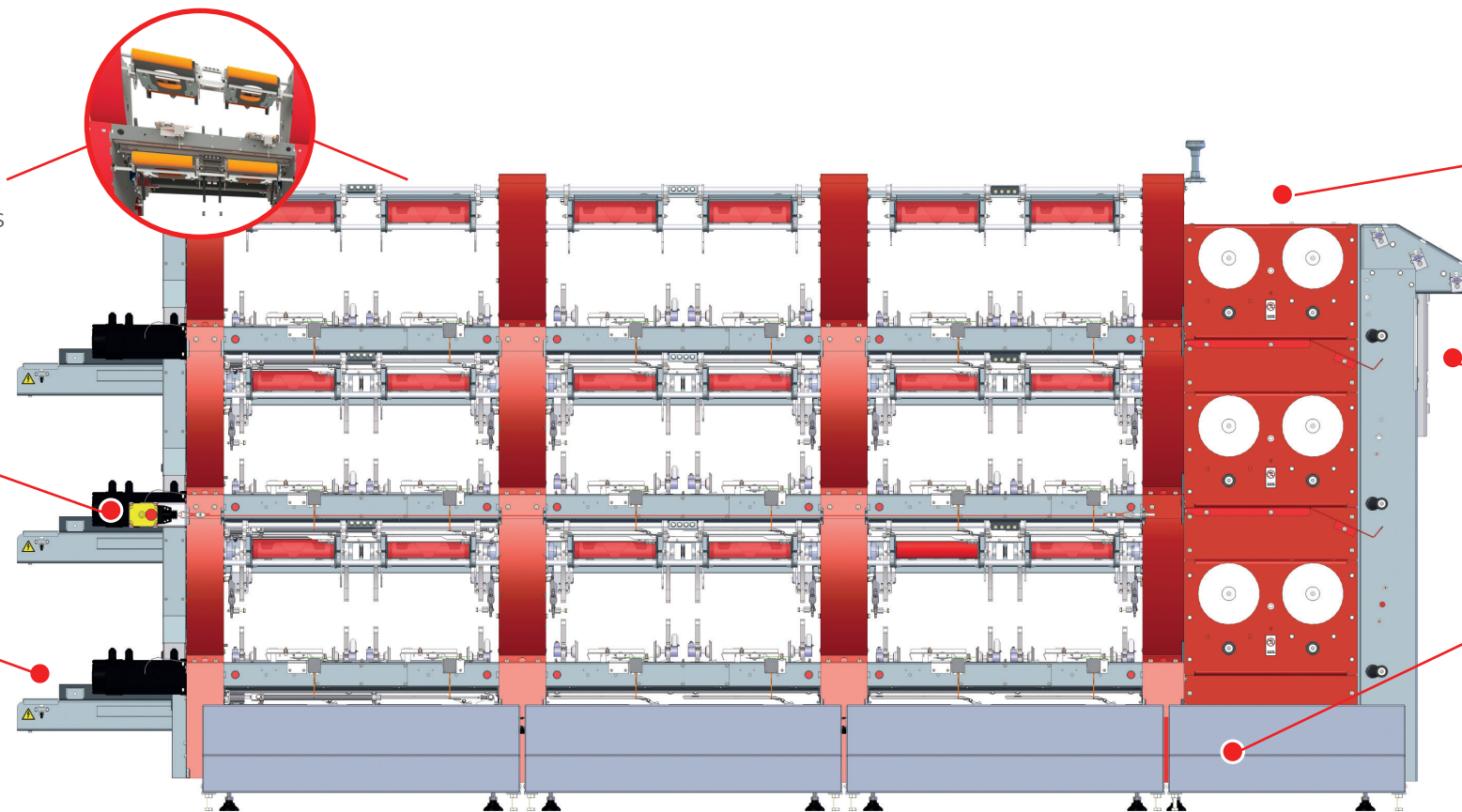
Consisting of tube magazine and yarn cutter: The magazine is loaded with the tubes, the yarn end is clamped and automatically cut during doffing.

EMERGENCY STOP

Emergency stop device to shut down the entire winder by means of a cable pull-cord.

CONVEYOR BELT

The conveyor belt transports the finished and ejected bobbins to the end of the line.



MACHINE HEAD

Coming from either the belt end or the accumulator, the yarn reaches the winding segments via the overfeed rollers.

HMI / OPERATOR PANEL

The necessary settings for the machine functions can be made here.

PLATFORM

The platform allows an easier access to the upper decks.

ADVANTAGES OF THE WINDER

1 | PERFECT SYMBIOSIS OF MACHINES

Perfect tuning and automatic communication of the winder with the PHS heatsetting system.

2 | EASY TUBE HANDLING

Automatic tube change as well as user-friendly tube loading mechanism.

3 | VARIABLE CHOICE OF SEGMENTS

Depending on the heatsetting equipment with up to 20 packages per deck possible.

4 | INDIVIDUAL SETTING OPTIONS

For example bobbin length etc.

5 | USER-FRIENDLY HMI

Easy to use and intuitive user interface for efficient operations via touch screen.

6 | EFFICIENT DOFFING PROCESS

7 | INNOVATIVE SERVO SYSTEM

Enhances bobbin quality and minimizes tension differences within a bobbin.

8 | AUTOMATIC SPEED REGULATION

Winding speed is adjusted according to the heatsetting speed.

9 | ELECTRONICALLY ADJUSTABLE

Easy modification of crossing angle and yarn feeding.

10 | WEIGHT CONTROL

Regulation of the contact pressure on the packages.

11 | INDEPENDENT UNITS

For the GVA: Two winder units winding independently of each other, meaning no complete production stop in case of malfunction.



THE COMPANY

The German company Power-Heat-Set GmbH supplies the carpet and textile industry all over the world with machines and components for yarn treatment. Power-Heat-Set stands for field expertise, innovation, service and quality. For over fifty years the products of Power-Heat-Set have been considered worldwide as a guarantee for high quality and efficient production in the field of yarn finishing and have established Power-Heat-Set as a successful player in the global carpet and textile industry.

All of Power-Heat-Set's equipment is manufactured by highly-qualified technicians at the German based head-quarters in Töging. There is a team of mechanics and technicians available worldwide for installations and service. Power-Heat-Set's Research & Development department continuously works on optimizations to bring the machines to the next level. The team focuses on bringing advantages to the customer's production process regarding quality, runability, productivity, energy saving and handling.



"Over 50 years of experience in the carpet yarn and textile industry and over 1.000 machines installed so far: This is Power-Heat-Set. With our vast knowledge and experience in the worldwide carpet yarn industry we offer the products to fit your specific needs."

CEO, Mr. Marcus Köhler



"Our engineers are constantly improving quality, operability, productivity, sustainability and handling to provide innovative technology and customized solutions which means our equipment is always state-of-the-art and meets the highest standards."

CTO, Mr. Kurt Frank

SPECIAL SERVICE OFFER



Consulting

Analyzing your specific needs, planning customized machine layouts, consulting you on process optimizations or financing... Whatever you need, we are happy to offer a comprehensive carefree package for you.



Worldwide Support

Our consultants and service technicians operate worldwide to ensure the best possible long-term support for your production and equipment, from machine building and installation to maintenance and operation.



Technical Online Support

We are not only your machine and spare parts supplier, but we are also your best source for technical support. Our technical support is available to you by phone or e-mail for any questions and problems.



24/7 Support Hotline

Excellence in customer service is of paramount importance to us. Consequently we established a service hotline which is available 24 hours a day, seven days a week.



Repair & Refurbishment

To reduce downtime and costs, we offer a special exchange and repair program. Simply send in your broken machine part and we'll take care. In some cases, we offer refurbished machine parts in an exchange program.



OEM Spare Parts

We have a wide range of spare parts in stock with a high availability for standard machines. Our OEM parts have been developed exclusively for our machines and customers and thus are specially fitted to your needs.



Online Training

Online training helps to improve and optimize your operation and manpower. Technical issues can be solved in a practical way.

CONTACT US

For more information on
Power-Heat-Set's automatic
winder or in case of any
other questions don't hesitate
to get in touch with us!

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