

## 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 have 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.

## ABOUT 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 headquarters 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**



**power-heat-set**

The perfect solution for every customer

For more information on Power-Heat-Set's variety of heatsetting machines and services or in case of any other questions don't hesitate to contact us!

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**GERMAN**   
Technology



## HiPerSet AT A GLANCE

The HiPerSet is our single belt solution. A specific air guide system provides a constant thermal environment in the complete processing station.

With the removal of obstructions to airflow, a high volume of climate circulation is achieved with relatively high compression allowing yarn to be heated quickly and thoroughly to the required heatset temperature.

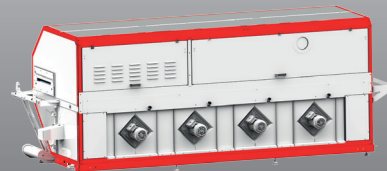
On the HiPerSet all different kinds of yarn can be processed.

It utilizes superheated steam with the full capacity of heatsetting natural or synthetic fibers and has an output of up to 12 tons/day.

A great benefit of the HiPerSet is its easy maintenance and operation as well as its modular design which allows every customer to choose their ideal machine.

### HiPerSet 4.0+ The economic model

Standard solution for medium-sized production.



UP TO 8 TONS PER DAY

### HiPerSet 8.0+ The strongest model

Strongest single channel machine on the market.

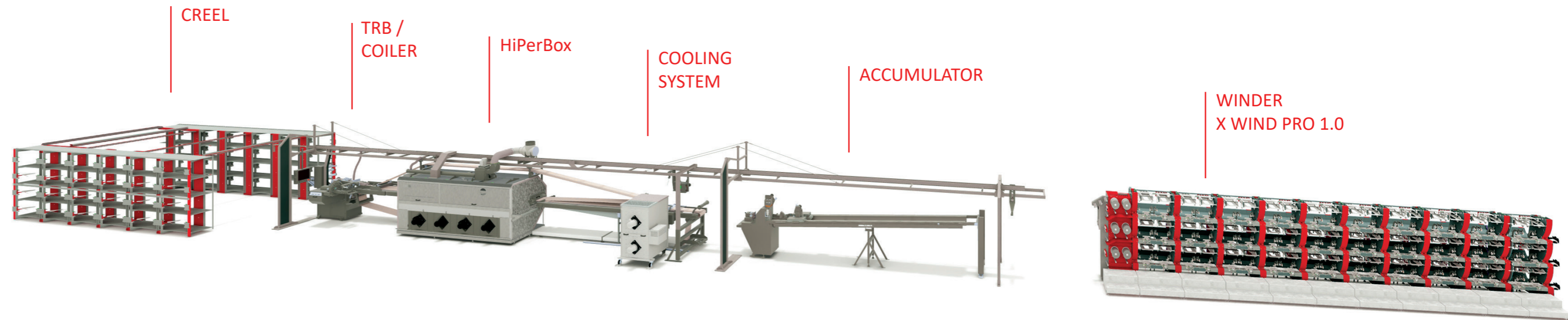


UP TO 12 TONS PER DAY

## TECHNICAL DATA

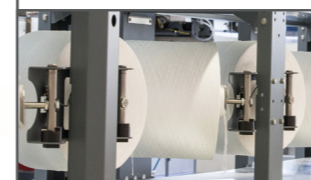
	HiPerSet 4.0+	HiPerSet 8.0+
Max. ends on creel	72	84
Max. yarn speed overfeed	600	600
Straight yarn	✓	✓
Frieze yarn	✓	✓
Channels	1	1
Accumulator	optional	optional
Winder max. speed (m/min)	700	700
Max. belt density (g/m)	650	650

## MACHINE DESIGN



#### Creel

- Optimal ergonomic design and easy handling
- Locking system for mandrels ensuring safe bobbin positioning
- Thread sensor with Quick Stop in the event a yarn end should break
- Anti static design
- Variable set-up options
- Equipped for all bobbin forms
- Optional SpliceSet available



#### TRB Coiler

- TRB steam channel allows efficient perfusion of yarn
- Directional side to side oscillator enables yarn deposit over the complete width of the conveyor belt
- If there is a stop, the yarn will be kept in the steam channel by means of a rake
- The yarn is deposited directly & flat from the TRB onto the conveyor belt; a yarn chute is not required
- The servo driven synchronized running of all transport rollers results in an even frieze effect, part. in the stop-start phase
- Rotation and rotational speed of false twist (optional) adjustable
- Air injector enables easy threading
- Coiler flyer with servo drive to synchronize coiler belts and yarn feed rollers with conveyor belt
- Possible to take up yarn onto winder without causing differences in tension, also in the start-stop operations
- Coiler pattern can be a circle or a figure eight
- Optional: Vertical coiler



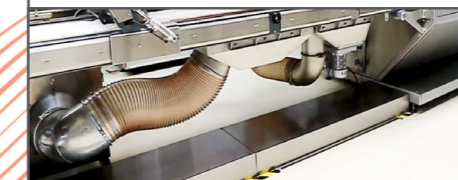
#### HiPerBox

- One channel system for equal heatsetting effect
- Computer-controlled dew point regulation (steam control)
- Range of temperature for heatsetting between 115-220 °C
- Strong energy saving design, steam consumption <30kg/h
- Modular sizes



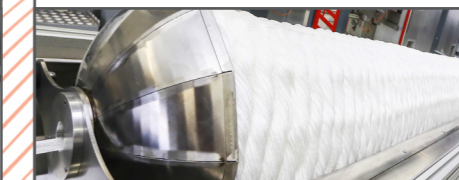
#### Cooling System

- High performing cooling unit
- Monitoring unit of yarn temperature at yarn take-off
- Tension generators for equal yarn take-off
- Air suction system for easy and defined yarn take-off
- Exhaust air filter system for reduced emissions



#### Accumulator

- Quick and easy to thread
- Variable length of storage depending upon the modular design (3 m, 6 m, 9 m)
- Yarn tension is achieved with the help of the tension generator resulting in improved yarn separation over rollers, eliminating sliding friction capable of creating „lean“ or „stretched“ yarn
- Hard-wearing carbide coating on the deflection rollers promotes optimal yarn transport
- Smooth and continuous contact pressure
- Sliding plate with special high-tech coating
- Pneumatic pressing lever improves yarn transport



#### X Wind Pro 1.0

- Quick thread up and doffing (down to 25 sec.)
- Yarn speed up to 700m/min
- Accurate bobbin build-up and excellent bobbin quality by innovative servo drive system
- Weight control
- For more details see our winder brochure

