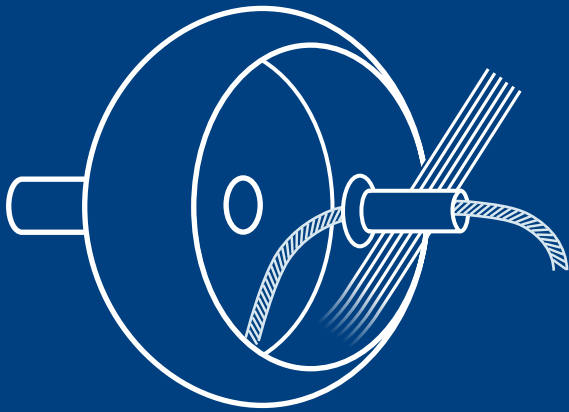


THE TRUE WAY TO YOUR **ROTOR YARN**



Leading edge for rotor yarns

A sure way to reduce production costs is to shorten the preparation processes. Eliminating unnecessary machines saves investments and operating costs. In the rotor yarn mill, a shortened line with IDF 2 is also associated with an improved yarn quality.

The Truetzschler spinning preparation gives you the unique opportunity to process 100 % waste into a respectable yarn. Take advantage of these benefits, for instance by using a separate small line for processing spinning waste such as noils from a ring spinning installation.

FROM WASTE TO





30 % lower deflection angle for better fiber guidance on the drafting systems



Stainless steel equipment in the blowroom and TC 19ⁱ for lower adhesion of finishing agents. Our modular concept offers flexible adaptation to your requirements also for cotton



Multidimensional savings potential in rotor spinning is only possible thanks to the first intelligent card TC 19ⁱ in combination with the Integrated Draw Frame IDF 2



Reliable separation of foreign parts with the T-SCAN detection models at any time



Maximum good fibre yield with minimum waste thanks to optical monitoring and self-optimisation by means of WASTECONTROL



Reduced personnel requirements due to fewer process stages or larger cans



Everything in view with the remote display T-LED. It provides information on the machine status intuitively at the speed of light.

Short fiber – great added value

Direct spinning with TC 19ⁱ and IDF turns 100 % noil waste into a valuable rotor yarn.

VALUE

The best process for your yarn

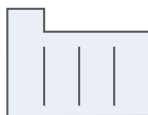
100 % cotton waste / reclaimed fibers - shortened

Increased economic efficiency through process reduction

Spinning the shortest fibers into yarn is only possible with the IDF. For example, 100 % cotton waste such as noils or production waste can be used. However, thanks to the shortened process, "second use" fibers, such as regenerated polyester or cotton fibers, can also be processed directly into a yarn.



Savings potential
through the intelligent
Card TC 19'



Blowroom

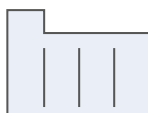


TC 19' with IDF 2

100 % man-made fibers / blend yarns - shortened

Perfect preparation for man-made fibers

Man-made fibers are also becoming increasingly important in rotor spinning. At Truetzschler, this trend is taken into account at the card and in the blowroom with stainless steel equipment for the machines. In addition, there is a special version of the TC 19' which is explicitly adapted for the processing of man-made fibers.



Blowroom



TC 19' with IDF 2

EFFICIENCY **QUALITY**

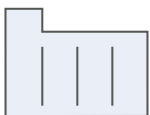
100 % raw cotton, optionally with waste - shortened

Shortened to higher quality

Rotor yarns have different properties than classic ring-spun yarns; they are more voluminous and have a softer handle. The properties allow the addition of short fibers, noils or cleaned waste. In the rotor yarn mill this, in combination with the shortened preparation line, is also associated with an improved yarn quality.



Fewer process stages,
multidimensional advantages



Blowroom



TC 19' with IDF 2

All materials – conventional

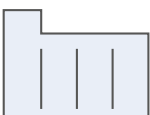
Classic process with innovative machines

If you do not want to do without 1 draw frame passage in your process, Truetzschler naturally also offers the classic process with autoleveller draw frame.

Due to its compactness and intelligent machine functions such as AUTO DRAFT, SMART CREEL and SERVO DRAFT, the TD 10 is ideally suited as a quality filter for your rotor yarn.



Improved fiber guidance
due to smaller deflection
angles with the TD 10



Blowroom



TC 19'



TD 10

Flexible production and optimal use of resources

Truetzschler blowroom concepts are ideally suited for rotor yarns thanks to their flexibility and simultaneous focus on resource-saving material use. The basis for better blending is already established in the bale lay-down. Therefore, the Truetzschler Portal Bale Opener BO-P allows a much wider bale inspection of up to 3.5 m.



Proper protection of installations



Maximum
process
safety

Adding waste significantly increases the risk of foreign parts in the material. The SP-MF reliably detects heavy parts as well as metal parts and separates them. If required, it can also be equipped with spark detection and extinguishing.



High performance dust removal

The efficiency of the rotor spinning machines depends strongly on the dust content of the cotton in the draw frame sliver. Truetzschler therefore uses the Dust Separator DUSTEX SP-DX at the end of the cleaning line. At this point, the cotton is highly opened and the dust removal is most effective.





CLEANOMAT CL-C3

For raw material containing trash, Truetzschler offers a three-roll cleaner, the CEANOMAT CL-C3. With its gradual opening and four cleaning points, it is designed for this application in the rotor yarn mill.



Universal Cleaner CL-U

This cleaner can be used for almost all types of cotton. It features an integrated dust removal that is important for the rotor yarn mill. The standard WASTECONTROL system ensures maximum raw material utilisation and minimum fiber content in the waste.



T-SCAN

A foreign part separator is particularly important when using recycled raw materials. Cleaned fibers can contain many particles that can interfere with the subsequent process. With its 5 detection modules, the TS-T5 reliably separates these particles and thus protects your production.



Reliable separation of foreign parts with the T-SCAN detection models at any time



Intelligent cleaning with WASTECONTROL

Optimal raw material utilisation and minimal waste play an increasingly important role in view of rising raw material costs. In addition to the blowroom, WASTECONTROL is now also available on the card, along the Truetzschler spinning preparation.

The influence of WASTECONTROL on the cost-effectiveness of carding is tremendous. Material savings as small as a few tenth of a percent result already in an enormous reduction of raw material costs. Thanks to its networked data, the Card TC 19ⁱ always operates at optimal economic efficiency.

Example of savings

Enormous savings potentials can be realised with one installation, e.g. 11 cards (100kg/h each) and one CL-U (1,100kg/h). Calculated for an example installation for Ne 20 carded, with an annual production of 9,140 t:

Waste	without WASTECONTROL	with WASTECONTROL
Card	3.5 %	3.1%
Blowroom	3.0 %	2.6%

302 BALLS
OF COTTON

or

117,230 \$

annual savings





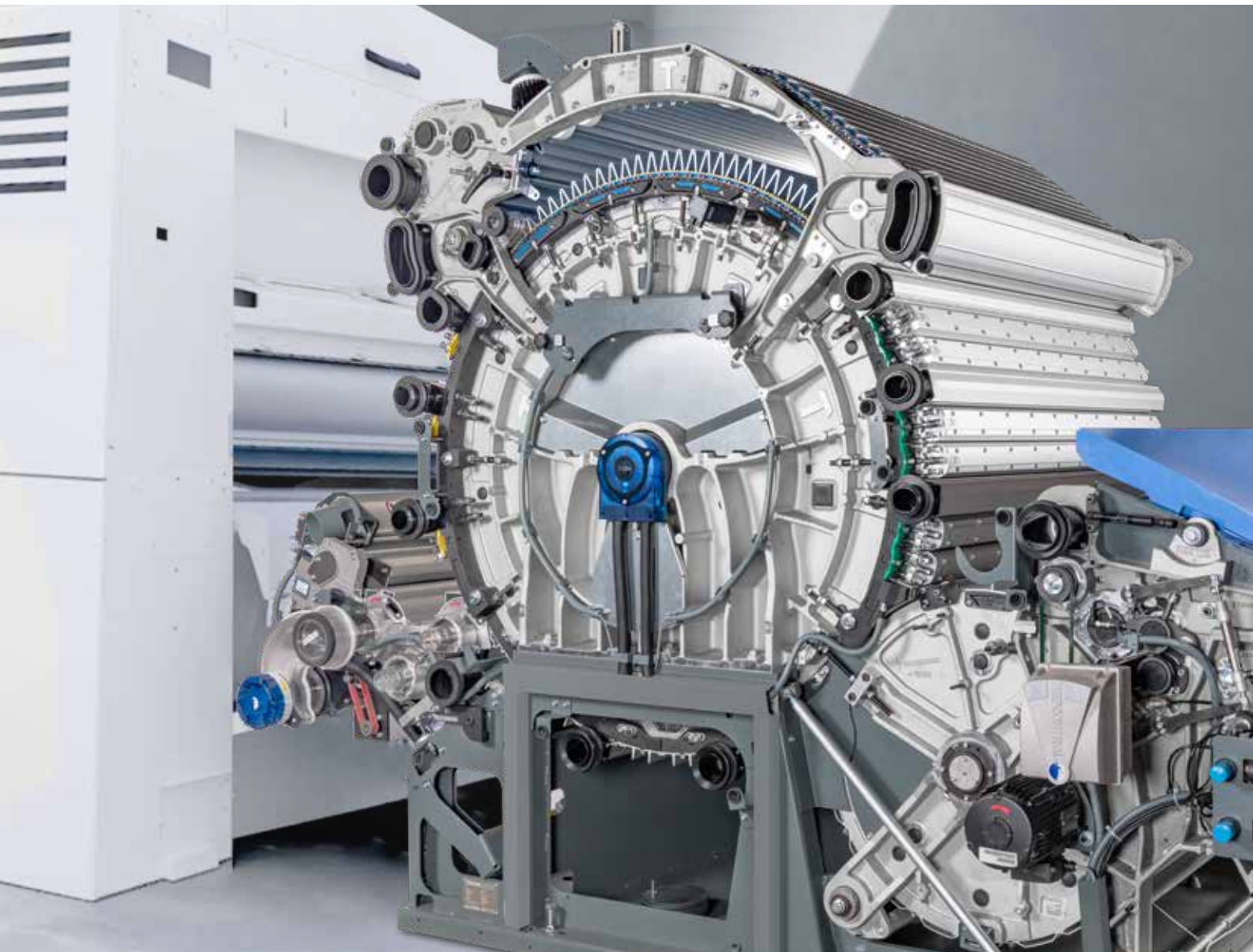
WASTECONTROL with blowroom and card

The optical sensor TC-WTC of the measuring system looks very closely at the cleaning elements and adjusts them according to your quality requirements. And best of all: completely on its own!



Carding has never been more intelligent

The intelligent Truetzschler Card TC 19ⁱ is also available in an optimized version for man-made fiber carding. The Gap Optimizer T-GO for self-optimizing carding gap adjustment always ensures an optimal carding gap even with man-made fibers, and thus consistent quality at its best.





3/1000"

Constant carding gap



Perfectly adaptable clothings

Just as varied as the fibers used in the rotor yarn mill are the clothings of Card TC 19ⁱ. We use robust and durable clothings made of special steels, especially when processing regenerates and waste in combination with very high card productions.

The first self-optimizing card

The carding gap is optimally adjusted at all times. The intelligent concept is made possible by the three components:

Gap Optimizer T-GO – optimum carding gap even under changing production conditions

WASTECONTROL – best raw material utilisation and minimum waste

Reliable NEPCONTROL – continuous monitoring of the nep level in the card sliver



WEBFEED

The cotton cards for the rotor yarn mill are always designed with the WEBFEED system with three licker-ins. The increased degree of opening prior to actual carding also has a positive effect on regenerates or addition of waste.



DIRECTFEED

On Truetzschler cards, high production rates during rotor spinning are already taken into account by DIRECTFEED, the large-volume upper and lower trunk. The unique direct feeding without delivery rolls ensures a trouble-free web feed at the card.

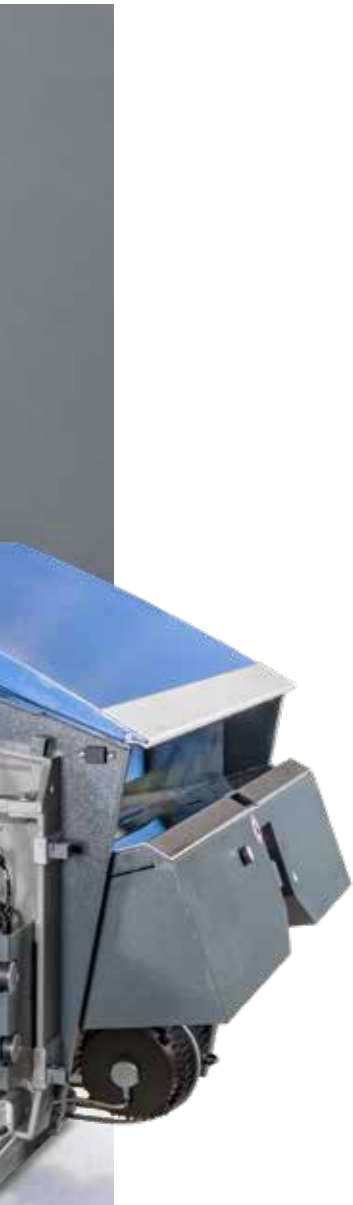


No compromise on the spinning plan

The Truetzschler Card TC 19ⁱ can also achieve very high delivery speeds with regular sliver counts. The draft at the Integrated Draw Frame IDF 2 can be kept in the technologically advantageous low range.



Everything in view with the remote display T-LED. It provides information on the machine status intuitively at the speed of light.



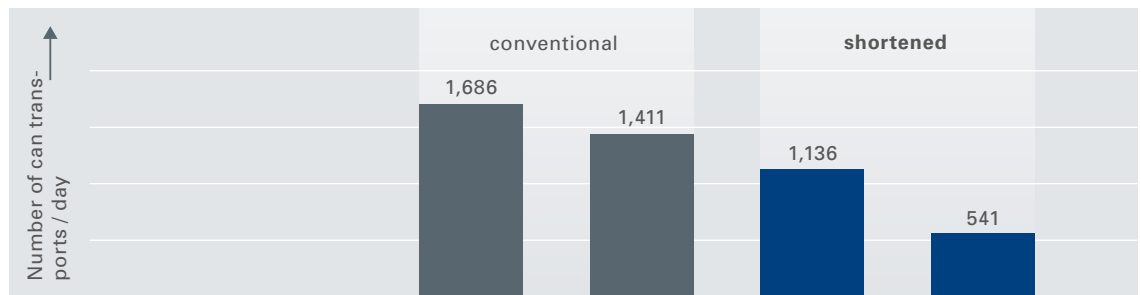
The shortest way for rotor yarns

Direct spinning with the Truetzschler IDF technology significantly reduces operating costs: Savings are achieved in building costs, power consumption and above all in can transports. The can transports can be cut in half once more if rectangular cans are used.



Rotor yarn mill

4,000 t/year = 600 kg/h

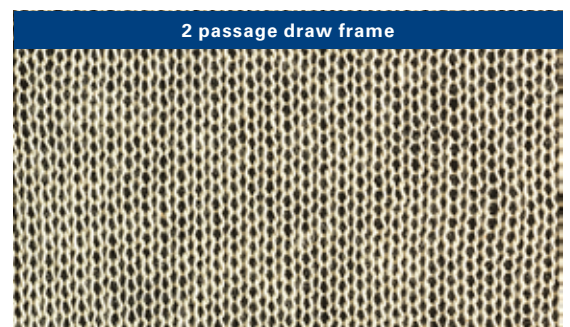
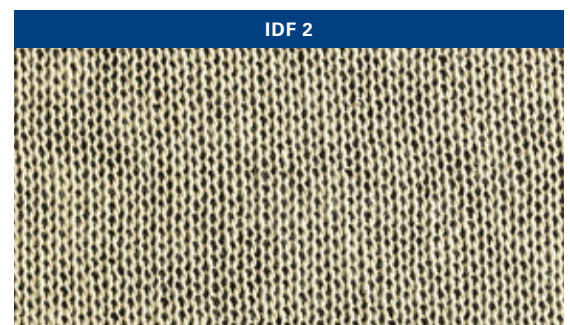


Card	JUMBO CAN	JUMBO CAN		
Breaker draw frame	JUMBO CAN			
Autoleveller draw frame	Ø 450 mm	Ø 450 mm		
IDF 2			Ø 450 mm	
IDF 2R				200 x 900
Number of persons needed	14	12	10	5

Improve quality at the same time

The IDF process also always means a quality increase at two levels: By reducing the number of sliver piecings (in this example approx. 400,000 less per year), yarn defects and yarn clearer cuts are reduced.

The better sliver structure of the integrated draw frame reduces imperfections in the yarn and significantly improves yarn count variation.



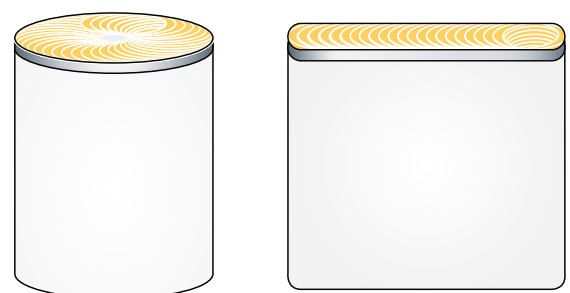
The comparison of the knitted fabrics shows a more uniform knit pattern and a nicer surface with the IDF process. Here, Ne 12 with 50 % raw cotton and 50 % noils was spun.

Significant personnel savings

One can transport cycle always means:

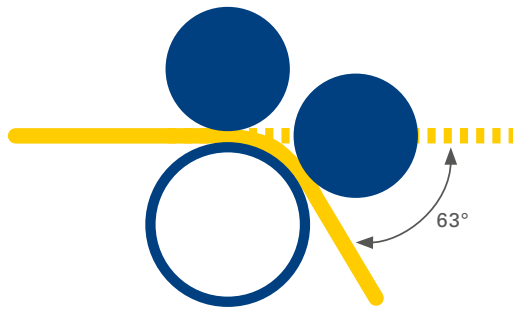
- Transporting the full can
- Piecing the sliver
- Returning the empty can

At approx. 4 min per cycle, up to 9 persons can be saved with IDF 2 and rectangular cans in this example. Added to this are the savings by eliminating the draw frame passages.



High production – low IPI's

With the Truetzschler Draw Frames TD 9T and TD 10 you always make the right choice!



- **Excellent fiber integration**
mainly on the web edges
- **Reliable fiber guidance**
at high speeds
- **Fewer laps on top rolls**
to protect the roll coatings

30% fewer deflection angles than the competition

Special drafting system technology ideal for sliver count and optimum fiber integration. Reliable guidance of the edge fibers leads to optimum fiber integration, even at the highest speeds.



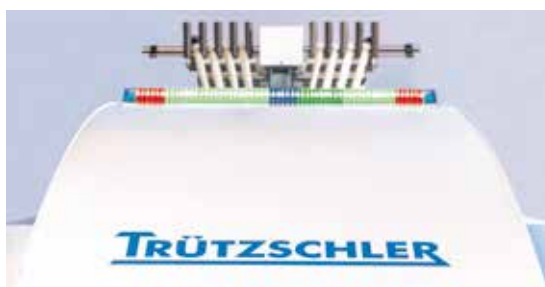
The TWIN BUT INDEPENDENT concept of the breaker Draw Frame TD 9T results in higher efficiency and simultaneously increased flexibility. This means higher production and this is what's most important with breaker draw frames.





Intelligent individual sliver monitoring

The new individual sliver sensors in the creel reliably detect sliver breaks, as a distinction can be made between motionless sliver, no sliver and running sliver. In contrast to contact rolls, the optical Truetzschler sensors protect against operating errors, as they function even when the pressure rolls are not used.



Operating states always in view

With the Truetzschler remote display T-LED, the quality is always in view. Here you can see the visualisation of the sliver count variation A% with freely selectable quality limits. If there is a warning for a possible pending machine stop or a machine malfunction, the machine automatically switches to the corresponding status displays.



Machine Overview

PRODUCTION MILE: 1000

STATUS: 100%

ALL CONFIGURATIONS

BLWY ROOM

Temperature

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

Vibration

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

CARDING WITH DR

Temperature

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

Vibration

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

Pressure

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

SPINNING

Temperature

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

Vibration

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

Pressure

10.0	10.0
10.0	10.0
10.0	10.0
10.0	10.0

Digital Solutions: Always and every- where informed

With Truetzschler technology, you can further extend your lead – also in the course of digitisation. Our digital solutions enable you to generate profits faster, bundle resources, optimize processes and save costs with little effort. They are as easy to use as an app and work even if you do not use only Truetzschler technology.



My Mill

The all-in-one platform: Whether information about your production, quality, maintenance or simply a complete overview - with My Mill your possibilities are almost limitless.

My Production

Knowing what is going on at home: The extension to My Mill is the ideal companion for managers on the go. You are fully informed practically anywhere on earth and can intervene as necessary.

My Wires

Your digital clothings management: Digitise your clothings and their condition in just a few minutes! Receive automatic notification of pending repeat orders and maintenance.



Our digital offers are cloud-based and extremely secure. We rely solely on the highest security standards because data security is just as important to us as it is to you.

The true way to your yarn quality

On the way to yarn quality and economic efficiency, spinning mills are facing increasing challenges: shortage of specialists, high flexibility in production, optimal application of resources, etc.

Since the foundation of our company we have been using our values to offer you what is of importance: "The true way to your yarn quality." We are continuously developing new technological solutions that allow you to address the rapid market changes, thus ensuring the success of your business. To support you in pursuing "The true way to your yarn quality", we are providing practical innovations and self-optimizing functions here and now as well.



The creation of true yarn quality involves the entire process:

- BO-P – new bale opener with more bales in the blend and increased performance
- TC 19ⁱ – optimal carding gap with T-GO
- T-LED – the quality always in view via the remote display



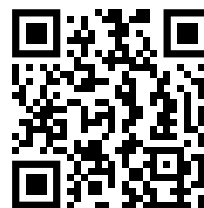
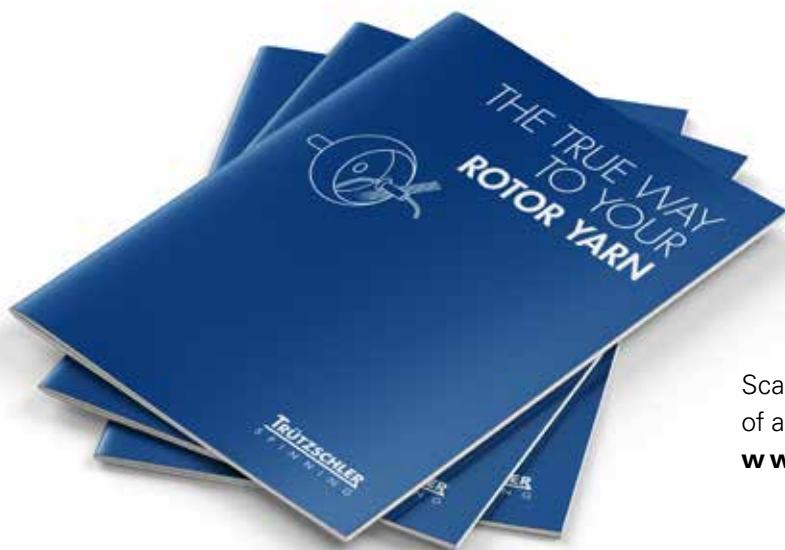
Key positions where resources are conserved:

- SP-MF – energy savings due to adapted fan speed according to BO-P position
- WASTECONTROL – raw material savings during cotton cleaning on the card and in the blowroom
- TD 10 – 24 h cleaning intervals due to large-scale filter box



Innovative, self-optimizing technology:

- A continuous material flow at all times with CONTIFEED 2
- TC 19ⁱ – the Gap Optimizer T-GO automatically sets the revolving flat to the ideal point and permanently checks this setting
- TD 10 – AUTO DRAFT for the automatic calculation of the perfect break draft



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Fiber preparation installations: Tearing line · Bale openers · Mixers
Cleaners/Openers · Foreign part separators · Dust separators · Tuft blenders
Waste cleaners | Cards | Draw frames | Combing machines |
Digital Solutions

TRÜTZSCHLER
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chemical bonding lines | Wet-laying lines | Finishing · Drying ·
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