THE TRUE WAY TO YOUR RING YARN
Ring-spun yarns – valuable classics

Despite the establishment of other spinning processes such as rotor and air-jet, the classic ring-spun yarn still plays the major role in the spinning sector.

As our customer, you are confronted with rising costs, higher market demands on your end product and simultaneously decreasing raw material qualities.

Truetzschler Spinning focuses on its core competence of spinning preparation and thus offers you the best possible solutions to emerge stronger from this area of conflict.
TWIN BUT INDEPENDENT breaker draw frame concept with higher efficiencies

Maximum good fiber yield with minimum waste due to optical monitoring and self-optimization via WASTECONTROL

100% T-BLEND installation for 100% accurate blending ratios for ring-spun blends

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

Better quality through fewer piercings, less operating effort and higher efficiencies with the JUMBO CAN

Multidimensional savings potential in ring spinning only possible with the first intelligent Card TC 19i

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

Faster lap changes with first-class quality thanks to clever tube change systems with TSL 12

TC 19i – the first intelligent card
One card feeds around 4,000 spinning positions when using carded ring-spun yarns! Only the TC 19i allows you to always produce the highest quality.

Maximum consistent quality even under changing production is only ensured by the TC 19i thanks to the self-optimization of the Gap Optimizer T-GO.
The best process for your yarn

Combed cotton

The perfect cotton installation from bale opening to combing and draw frame
Combed yarns are subject to a special quality requirement. The application of the ultra-modern Truetzschler combing technologies definitely does justice to this. In combination with the intelligent Card TC19' and the latest autoleveller Draw Frame TD you have the optimal preparation for high-quality ring-spun yarns.

Material blends

The perfect blend
Tuft blending has clear advantages over draw frame blending by allowing you to extract the combed material if necessary and to automatically return it to the blend line as a component. Up to 3 different blends with up to 6 different components can be produced from one T-BLEND installation. And all this with maximum production and precision, thanks to the gravimetric weighing process.

![Diagram of the perfect cotton installation and material blends](image-url)
Carded cotton

**Intelligent solutions for your ring-spun yarn**
As implied by the name, with carded ring-spun yarns the card is already the centre of attention. Choose the card that, thanks to T-GO, always helps you achieve the optimum carding gap and thus demonstrably stands for higher production, maximum nep reduction and better IPI in the downstream yarn process. The autoleveller Draw Frame TD 10 serves as quality filter for the spinning machines. Highly dynamic levelling intelligence has never been more compact.

![Diagram of Blowroom, TC 19, TD 9T, TD 10]

Pure man-made fibers

**Reliable processing of man-made fibers**
Truetzschler offers the perfect equipment for trouble-free processing of man-made fibers with its man-made fiber version of the TC 19. The fiber guide elements made of high-quality stainless steel also lead to an absolutely trouble-free process in the blowroom. This equipment prevents the accumulation of finishing agents and thus leads to a clearly safe fiber transport. This also prevents the adhesion of fibers due to static charge.

![Diagram of Blowroom, TC 19, TD 9T, TD 10]
Flexible production and optimal use of resources

With its modular concept, Trützschler offers flexible solutions for all cases. Thanks to intelligent systems such as the self-optimizing CONTIFEED system, we ensure perfect material flow.

**Universal Cleaner CL-U**
Gentle opening and efficient raw material yield are the main priorities for the CL-U. The integrated dedusting and the standard WASTECONTROL lead to process shortening and highest good fiber yield.

**WASTECONTROL**
The settings of the cleaning elements should not be left to chance. The optical WASTECONTROL sensors check the waste composition in the suctions. This ensures that excessive fiber loss is immediately identified. WASTECONTROL is part of the standard equipment of CLEANOMAT Fine Cleaners CL-U and CL-C3.

320 BALES OF COTTON saved per year

Annual production: 10,000 h/a
Savings: 0.5%
Bale weight: 156 kg
Portal Bale Opener BO-P
25 - 40% better blending: With 2,900 mm or 3,500 mm, the portal bale opener offers very large working widths that allow 5 to 7 bales to be placed side by side. With its two opening rolls, the working head simultaneously works off up to 14 bales. This is the perfect foundation for homogeneous blending in the blowroom.

Only T-BLEND has this to offer
- Self-optimization of the weight
- Precision mass measurement
- Automatic taring – simple calibration
- High capacities up to 2,000 kg/h
- Up to 6 components in the blend
- Smallest blending ratios up to 1%

T-BLEND installation for 100% accurate blending ratios for ring-spun blends

T-SCAN TS-T5
The supreme discipline of foreign part detection are transparent parts and thin, white, thread-shaped parts. The Truetzschler T-SCAN TS-T5 meets these and other detection requirements with unprecedented quality. Thanks to the self-optimization function, T-SCAN always keeps an eye on what matters most: your raw material quality.
Carding has never been more intelligent

Decreasing raw material qualities are a special challenge for your spinning preparation. Waste, foreign parts and neps must be separated efficiently with maximum preservation of the raw material. Count on the most economical alternative: the intelligent Card TC 19i. It reduces the neps thanks to the Gap Optimizer T-GO to a minimum while WASTECONTROL simultaneously makes full use of the raw material.
CONTIFEEED – card feeding

The material flow to the card is already continuously controlled by the CONTIFEEED system. Furthermore, the production requirements of all cards of a line influence the production of the last machine in the blowroom. This connection contributes to a continuous card feeding and thus also to a uniform card sliver quality.

Economic carding with WASTECONTROL

Savings as small as a few tenth of a percent result already in enormous raw material savings. The optical sensor of WASTECONTROL TC-WTC permanently monitors the waste quality at the most important cleaning point, the licker-in. If too many good fibers are registered in the waste, the system optimizes the mote knife adjusting system via the servo motor.

Flexible WEBFEED with 3 licker-ins or 1 licker-in

When using cotton cards, 3 licker-ins ensure perfect opening prior to actual carding. However, in the case of man-made fibers, one licker-in is sufficient. It is designed as a needle licker-in and has stainless steel fiber guide elements that are resistant against finishing agents.

MULTI WEBCLEAN

The carding conditions must be adjusted depending on fiber, production level and quality desired. This is no problem at all with the flexible MULTI WEBCLEAN system. Ten special elements each in the pre-carding and post-carding section of the cylinder can be individually adapted.

MAXIMUM GOOD FIBER YIELD WITH MINIMUM WASTE

MAGNOTOP 3

Maintaining a consistently high quality requires regular change of flats clothings. Thanks to its neodymium magnets, the Truetzschler MAGNOTOP 3 always ensures a perfect fit immediately. This eliminates a flats workshop, as the service life could also be extended by one grinding interval.
T-GO – where less is more!

Increase in quality and productivity with Gap Optimizer T-GO. When the cotton fibers work their way from the bale to the yarn, the key point for yarn quality lies between the cylinder clothing and flats clothing. This is where the quality originates – and the smaller the carding gap in cotton carding, the higher the quality.
Thinner than a sheet of paper

The ideal carding gap for cotton carding is about 3/1,000”, that is less than the thickness of a piece of paper (4/1,000”).

3/1000”
Constant carding gap with T-GO

Delivery of full quality and productivity potential thanks to Gap Optimizer T-GO

![Graph showing quality and productivity improvement with T-GO]

-30 %
-20 %
-10 %
0 %
+10 %
+20 %

Card TC 19
• up to 30 % less imperfections
• up to 20 % more production

Card TC 15

Permanent / automatic adjustment of the ideal carding gap

Even an experienced technologist cannot carry out extremely narrow TARGET settings of e.g. 3/1000” with the “cold” card at standstill, because centrifugal forces and expansions due to the temperate increase have a considerable influence on this setting. In addition, a carding gap set once without T-GO results in a “blind flight” in terms of quality in the downstream production process.
Ultradern combers

For yarns of the highest quality you will by no means be satisfied with the average. Truetzschler offers state-of-the-art combers with direct drives for perfect noil extraction.

Superlap with multi-drive technology

With its multi-drive technology, consisting of four maintenance-free direct drives, the TSL 12 produces a premium lap quality. Process parameters such as drafts, tensions and lap pressure can be adjusted during lap build-up.

Fastest lap change time – increased productivity

Lap changes in 20 seconds are only possible due to the individual drive technology and a clever tube change system. With 400 lap changes per day, this results in a 15% increase in production. This means 60 more rolls produced per day.
Self-optimization in combing
The Truetzschler Piecing Optimizer optimizes the TIMING function of the piecing time fully automatically; time consuming laboratory tests are entirely eliminated. The CURVE function permits a complete replacement of the detaching curve. This allows the TCO 12 to be optimized for high speeds in a matter of seconds.

Online quality monitoring
Truetzschler sensors also record important quality parameters in combing and monitor them according to self-set quality limits. Here, too, we want to ensure the quality of your end product as early as possible.
Highest precision

On the TCO 12, the detaching rolls are driven by two highly dynamic servo motors. The movement of the combing components is generated by two coupled maintenance-free drives. This guarantees the highest precision in the movement of the combing elements at each head. Decoupling the highly dynamic motion sequence of the detaching rolls from the main shaft allows fully automatic optimization of the piecing time.

Precisely maintained sliver count

If your process is designed for draw frame blends, the Truetzschler comber with the unique COUNT CONTROL levelling system offers important assistance. Long-wave sliver count variations are measured with the TCO-DM measuring system and compensated by the control system, thus maintaining the exact sliver count and ensuring that your blend is always right.
The machine can easily be switched between sliver suction and can coiling.

**Automatic material request**

The necessary production of the machine is transmitted to the combing machines via material requirements of the blowroom. If there is no material request, the comber stops automatically.

The advantages of the tuft blend in comparison to the often common draw frame blend are easy to see.
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.
Reliable blending
In contrast to contact rolls, the optical Trützschler sensors protect against operating errors, as they function even when the pressure rolls are not used. The intelligent individual sliver monitoring with SMART sensors is explicitly advantageous if three draw frame passages are also used for blending. Here, the reliable detection of sliver breaks is essential for the blending ratio.

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.
More productivity through true greatness

The use of JUMBO CANS makes sense for processes with many stages. Using larger cans can save considerable operating costs.

In the example of a ring-spun yarn spinning mill with a capacity of 5,000 t/a (750 kg/h), the personnel costs for can transport can be cut in half. In practical terms, the staff can be reduced by 2 persons in this spinning mill.

- 50% savings in personnel costs through the use of JUMBO CANS. A full JUMBO CAN can be moved with a traction force of only about 8 kg.
- Better quality through fewer piecings, less operating effort and higher efficiencies with the JUMBO CAN.
Digital Solutions: Always and everywhere informed

With Trützschler 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 Trützschler 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

- T-SCAN – combination of five technologies for yarns free of foreign fibers
- BO-P – new bale opener with more bales in the blend and increased performance
- TC 19” – optimal carding gap with T-GO
- T-LED – the quality always in view via the remote display
- TCO 12 – COUNT CONTROL for higher sliver quality

Key positions where resources are conserved:

- 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
- TSL 12 – higher efficiency thanks to fastest lap change
- BO-P – self optimizing bale work-off that considers hardness differences in the bale

Innovative, self-optimizing technology:

- TC 19’ – 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
- TCO 12 – PIECING OPTIMIZER for optimal piecing time and detaching curve
- T-BLEND Auto Start – self optimizing production parameters
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Fiber preparation installations: Bale openers · Mixers · Cleaners / Openers · Foreign part separators · Dust separators · Tuft blenders
Waste cleaners | Cards | Draw frames | Combing machines | Digital Solutions: My Mill · My Production App · My Wires App

Bale openers / Mixers | Card feeders | Cards / Crosslappers
Wet laying lines | Hydroentangling, needling, thermo- and chemical bonding lines | Finishing, drying, winding, slitting machinery

Filament lines: Carpet yarns (BCF) · Industrial yarns

Metallic wires: Cards · Cards long staple · Cards Nonwovens
Rotor spinning | Flat tops | Fillets | Carding segments
Service machines | My Wires App | Service 24/7