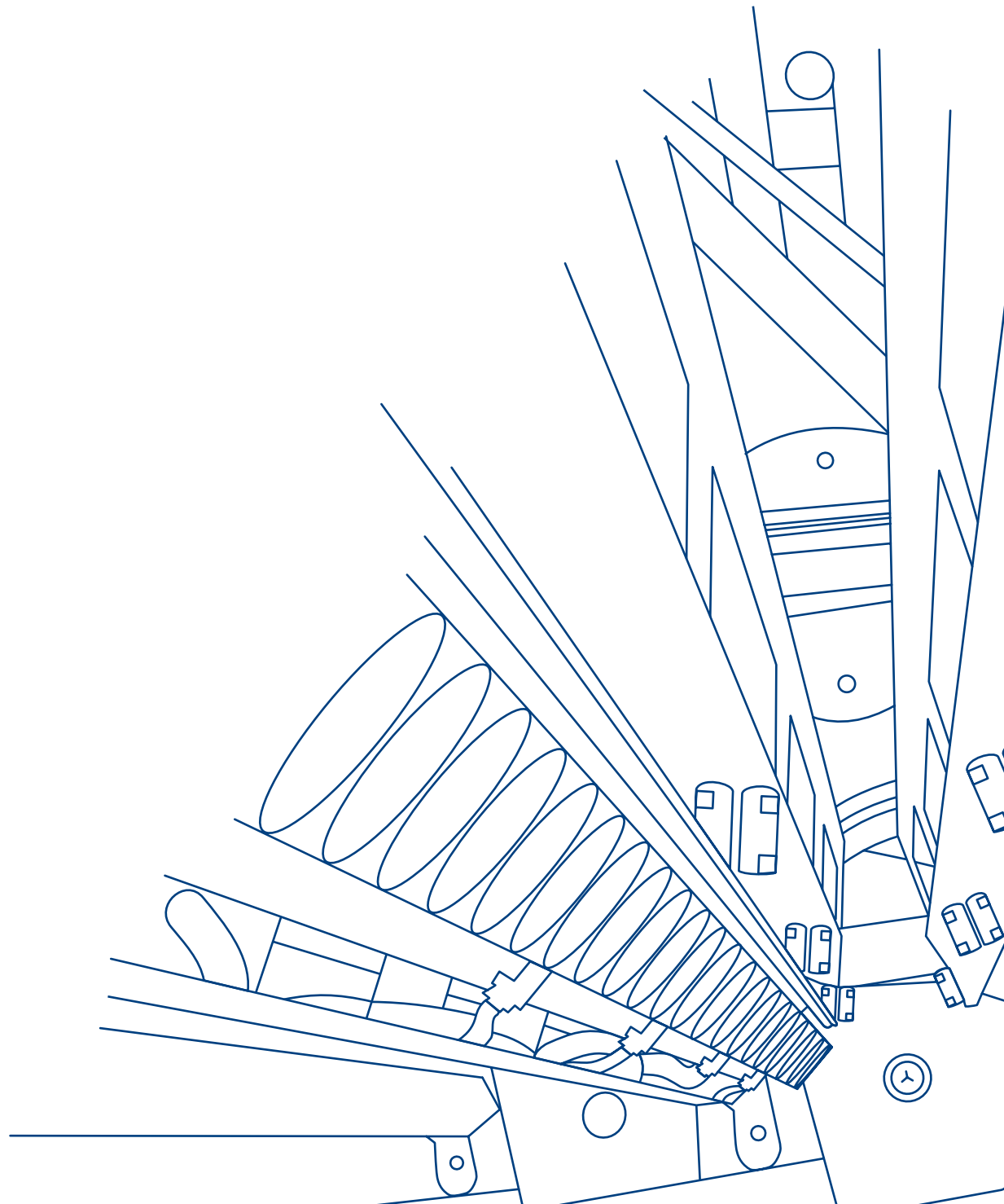


TRÜTZSCHLER

S P I N N I N G



true family 04

true innovation 06

Quality 08

Efficiency 12

Intelligence 14

Technologies 16

Blow room 24

Card 34

Draw frame 44

Combing 52

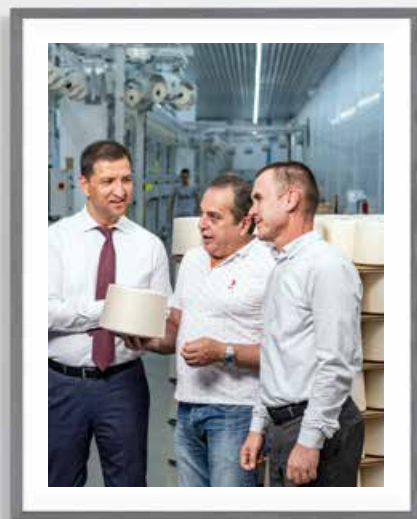
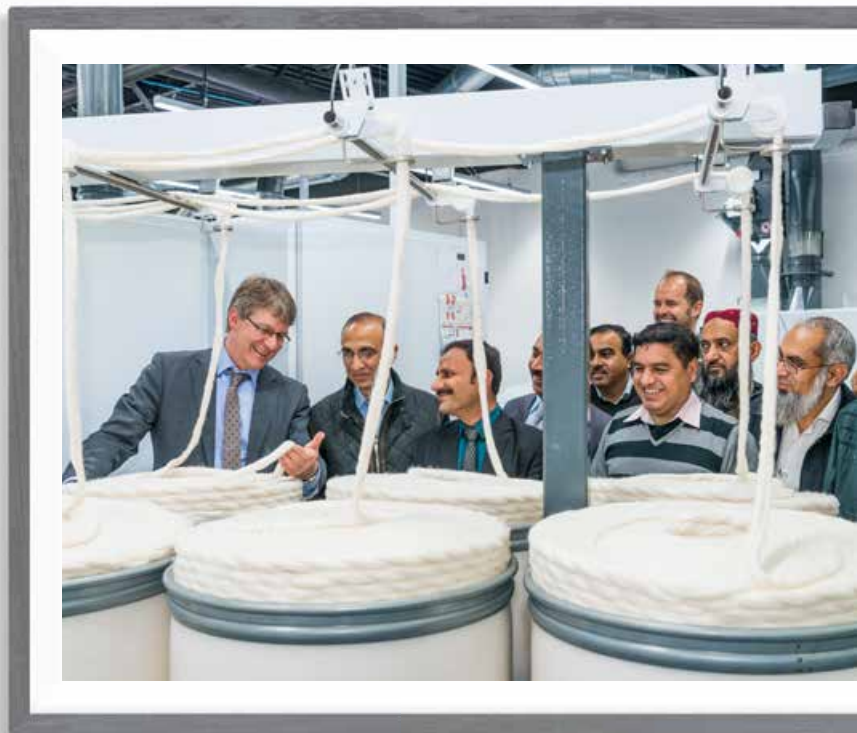
Downloads 60

Focussed on your success

At Truetzschler, true customer orientation means: We use our expertise, our contacts – in part for decades – and our intelligent technologies to help you achieve your personal goals. These can be best quality, maximum economy or first-class efficiency.

Either way, we keep our promise to do everything in our power to give you a competitive edge in your market and to expand it permanently.

it's true
it's truetzschler





true family

Others focus on quarterly figures.
We keep an eye on your success.

Fortunately, worrying about satisfied investors is not one of our priorities. Truetzschler is a family-owned company that focuses on people, some of whom we have been working with for generations. We listen to you very carefully and know which individual goals you are pursuing with your natural and man-made fiber processing.



You

To us, family business means to shape the future together – with you. This is precisely what we focus on to ensure your long-term success.



60.000

Cards
sold

3.000

Employees
worldwide

13

Locations
worldwide

true innovation

Because we are heading in the right direction,
you have continuous tailwinds.

For many, technological lead is the further development of an existing solution or a revolutionary design. Truetzschler's aspiration is to open up new competitive advantages for you. We achieve this time and again by being the first to cross technological horizons.

The resulting solutions help you to produce your quality yarns and nonwovens products more efficiently and of higher quality – and that is what counts.

INDUSTRY 1.0

The first mass productions start at the beginning of the 19th century. Textile machines were the first industrial machines.

INDUSTRY 2.0

With the introduction of electricity as a driving force at the end of the 19th century, piecework and assembly line work move into modern productions. Truetzschler is one of the first textile machine manufacturers to use electric drives.



INDUSTRY 4.0

Technologies are increasingly being digitised. Thanks to its unique sensors, Truetzschler measures more production parameters than any competitor. These data form the basis for digital solutions such as My Mill, My Production and My Wires.

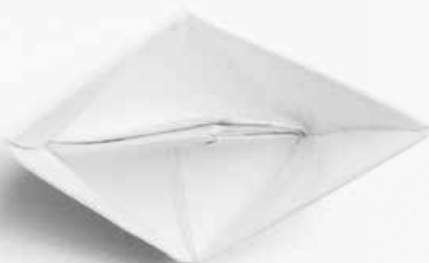
INDUSTRY 3.0

From the 1970s onwards, computers take over more and more tasks. The first computer-controlled card in the industry comes from Truetzschler. In 1991, Truetzschler is the first textile machine manufacturer to use network technologies.



INTELLIGENT SPINNING PREPARATION

Truetzschler products are becoming more and more intelligent: Our new Card TC 19ⁱ monitors and optimizes the carding gap completely independently, thus ensuring a consistently high yarn quality. Smart networking of machines, components and digital solutions also improves quality, productivity and raw material utilisation.



TRÜTZSCHLER
S P I N N I N G

The true way to your yarn quality

What does the true way to individual yarn quality look like? We start by taking your point of view: We deal intensively with your situation, your challenges and the trends in your markets.

In line with this, we implement solutions with which you can achieve optimum yarn quality in your production, make optimum use of resources and benefit from the advantages of intelligent self-optimization.



**OPTIMAL
YARN QUALITY**



**ECONOMIC
EFFICIENCY**



**SELF
OPTIMIZATION**

Where yarn quality is decisive,
we are decidedly better.



Yarn
Quality

We at Truetzschler have a simple maxim: When we do something, we do it right. Therefore our domain was and is exclusively the spinning preparation. Because here – and only here – the yarn quality is created that can no longer be improved in the downstream process. This focus has often led to groundbreaking developments that guarantee you a head start in your market.

SPECIALISATION SPINNING PREPARATION

To us, exclusive specialisation in spinning preparation means: thinking of the end product, i.e. of the optimum yarn quality.

We support you in all your preparation processes, whether for combed or carded ring yarns, rotor yarns, air jet yarns, the processing of recycled fibers or the production of hygiene products.





0,4%

At a cotton input of 20,000 t/a,
WASTECONTROL saves approx.
320 bales of cotton/year in the
blowroom by increasing the good
fiber yield by 0.4 %, for example.



More use of resources, more possibilities, more success – it's that simple.

Well, maybe it's not quite that simple: Obtaining the maximum of good fibers from the raw materials requires our unique technological expertise.

This is impressively demonstrated by the WASTECONTROL system in the blowroom and card. An optical sensor monitors the waste and adjusts the knife setting so that no good fibers are separated.

But resources can also be used efficiently through our clever machine concepts for high individual efficiency such as the TWIN BUT INDEPENDENT draw frame concept or the fastest lap change system. Last but not least, an optimized airflow or the use of particularly energy-saving drives lead to a responsible use of your resources.

RESULT | We lay the best possible foundation for your individually defined yarn quality with ideal use of resources.





The Truetzschler know-how:
Best possible settings at all times.

Optimal spinning preparation requires a lot of qualified personnel or intelligent machine concepts.

Many spinning mills have a problem – there are not enough qualified specialists. Our intelligent solution for personnel bottlenecks is called adaptive self-optimization: High-precision Truetzschler sensors continuously measure decisive production parameters. On this basis, our machines adjust themselves optimally.

The result: You can achieve consistently high sliver quality on all machines without manual readjustment. A prime example here is our intelligent card TC19ⁱ. With the Gap Optimizer T-GO, it permanently provides the ideal carding gap.

T-CON 3 AND T-GO

Truetzschler T-CON 3 sensors transmit data for continuous self-optimization of the carding gap by T-GO.

PIECING OPTIMIZER

Why carry out laboratory tests when you can use self-optimization for the piecing time – only on the Truetzschler comber.

AUTO DRAFT

With self-adjustment for perfect break draft on the autoleveller draw frame.

ELECTRONICS PRODUCTION

The big difference for smallest components

When it comes to computer units for our machines, we are doing something very unusual: We develop and manufacture them inhouse instead of buying them. The same applies to measuring instruments, touch screens, frequency converters, servo axes, drive electronics, sensors and cameras.

We are pursuing this course for good reasons: Only the components developed by our engineers have been perfected for use in the spinning mill environment. They offer a first-class performance, without unnecessarily complicated and failure-prone additional functions.

This – and the long availability of spare parts – makes Truetzschler electronics the benchmark in terms of reliability.



T-GO

Unique carding results through self-optimization functions.



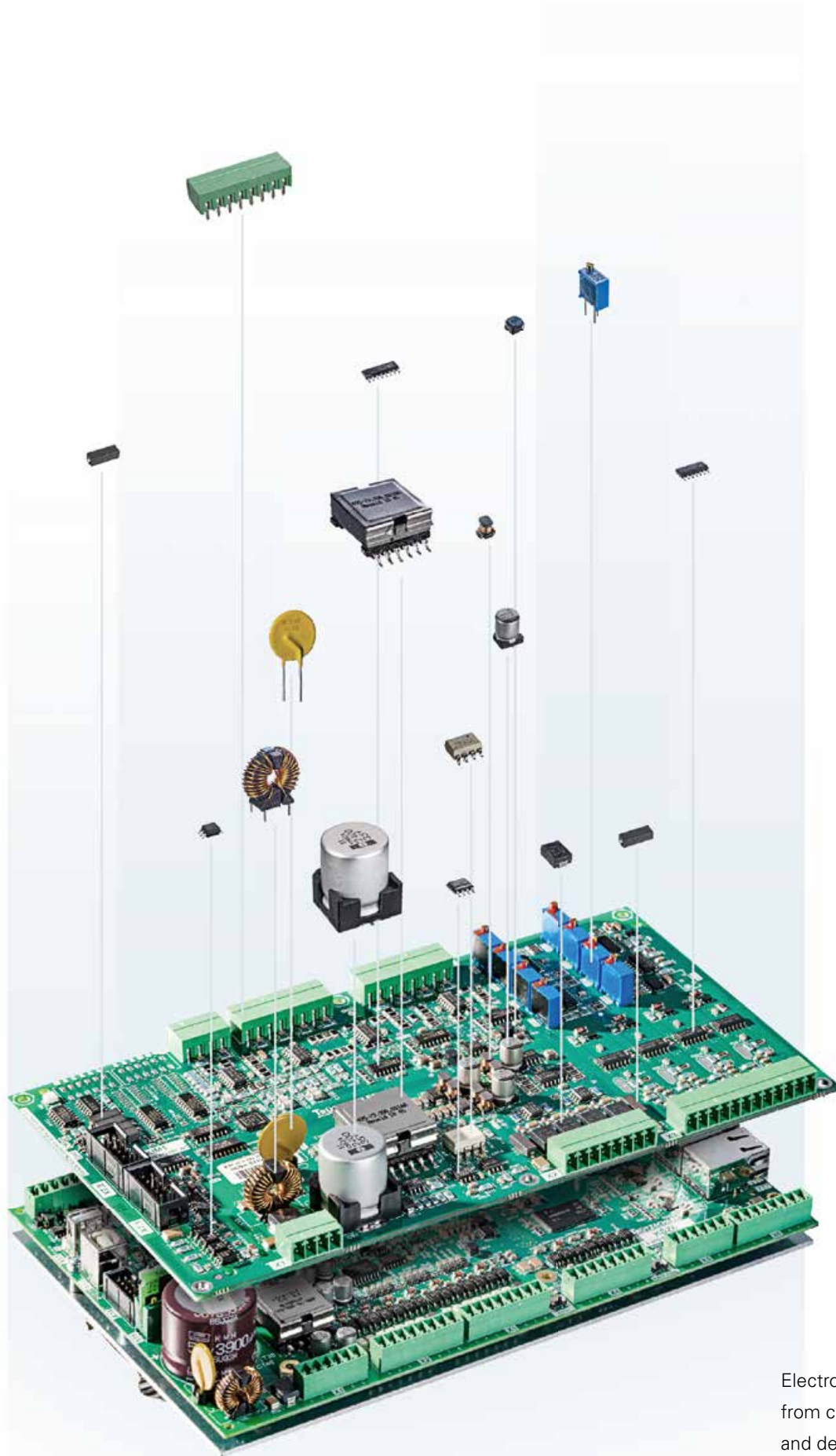
Drive electronics

Latest drive technology for lowest energy consumption.



Energy monitoring

With My Mill, a striking increase in energy consumption is noticeable.



Electronics “made by Truetzschler”:
from circuit board design, assembly
and device engineering to control
algorithms.



WASTECONTROL

Truetzschler sensors place
waste quantity and quality
in optimum relation to each
other.



Multi-touch with RFID technology

Truetzschler sets new standards
with User Focused Design for
various operating levels.



Foreign part separation

Truetzschler CCD cameras
detect parts that no one else
can see.

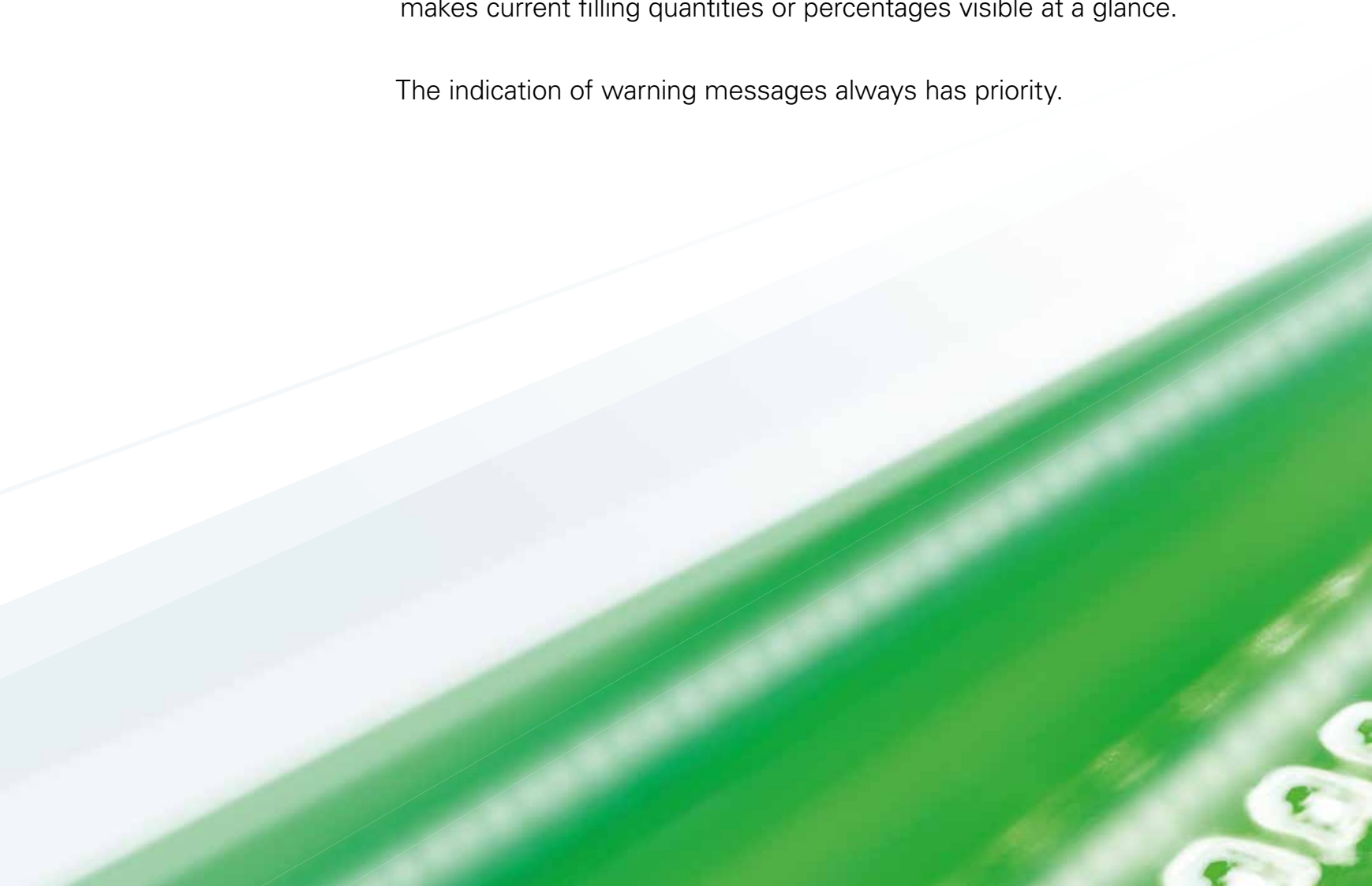
T-LED REMOTE DISPLAY

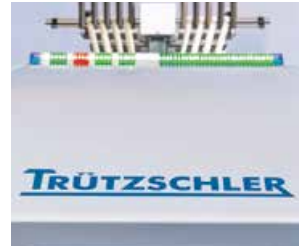
provides information at the
speed of light

Light directs our perception in a special way. Whether turn signal on the car, status light on the mobile phone or – much more romantic – a sunrise: In all cases, we know immediately what is going on.

With T-LED, we have transferred this principle to our machine technology: However, the T-LED indicates more than just “OK”, “Warning” or “Fault”: The number of LEDs within the T-LED strip makes current filling quantities or percentages visible at a glance.

The indication of warning messages always has priority.





Sliver break in the creel with position display

In case of a sliver break, the T-LED of the draw frames automatically switches over and indicates the position of the sliver break in the creel.



A% sliver count variation

If the focus is on the display of sliver count variations A%, T-LED can also show this aspect at a glance.



Chute feed pressure

This mode shows the percentage deviation from the target pressure of the DFK on the TC 19i.



Idle mode display

If there is no material request from the blowroom, a green running light signals that the BO-P is ready for operation.

JUMBO CANS

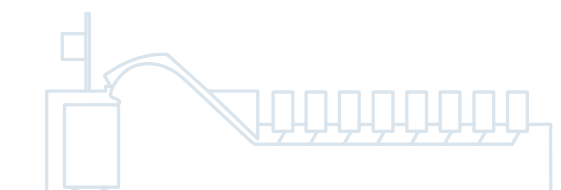
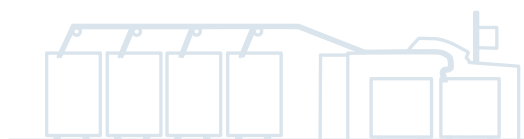
More productivity through true greatness

The name indicates it: Our JUMBO CANS represent a truly great development. JUMBO CANS can hold 43 % more sliver than conventional 1000mm cans. This makes them the key to higher efficiency on cards and the downstream process stages of breaker draw frames, lap winders, combers and autoleveller draw frames.

JUMBO CANS are ideal for the gentle sliver coiling system T-MOVE 2, which allows up to 51 % more can content.

Eliminating many thousands of sliver piecings per year and thus avoiding thousands of potential faults automatically increases yarn quality. Great, right?





Even fully loaded – with up to 83 kg card sliver – the JUMBO CANS can be moved very easily over straight hall floors.



The 43% longer runtimes of the JUMBO CANS in the creel results in reduced downtimes on autoleveller draw frames or lap winders.



The new T-MOVE 2 increases the filling quantity by a further 5%.

DIGITAL SOLUTIONS

Always and everywhere 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.



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



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 wire management: Digitise your wires and their condition in just a few minutes! Receive automatic notifications of pending repeat orders and maintenance.



blow
room

It is no coincidence that Truetzschler is regarded as innovation leader in the blow room sector: We use patented technologies to obtain the maximum amount of good fibers from the raw material. There is no better starting point on the way to your yarn quality.



Access to more productivity

The portal bale opener BO-P offers a larger working width with less space requirement and better blending.

The working widths of 2,900 mm or 3,500 mm allow completely flexible bale placement up to 63 m in length. The working head of the BO-P features two opening rolls which have 25 % more teeth in a new arrangement. This allows the simultaneous gentle processing of

tufts from many bales – the prerequisite for a homogeneous blend. At the same time, the portal concept saves floor space: The BO-P can also be placed close to a wall if the bale lay-down area is freely accessible.



THE TRUETZSCHLER PORTAL CONCEPT:

- 2.5 to 3.0 t material per hour
- Up to 50 %* more working width
- 30 to 45 % less space requirement
- 25 to 40 % better blending
- Up to 48h unattended operation of a bale lay-down

* compared to BO-A

Pure profit

WASTECONTROL BR-WCT saves hundreds of bales of cotton per year through intelligent cleaning.

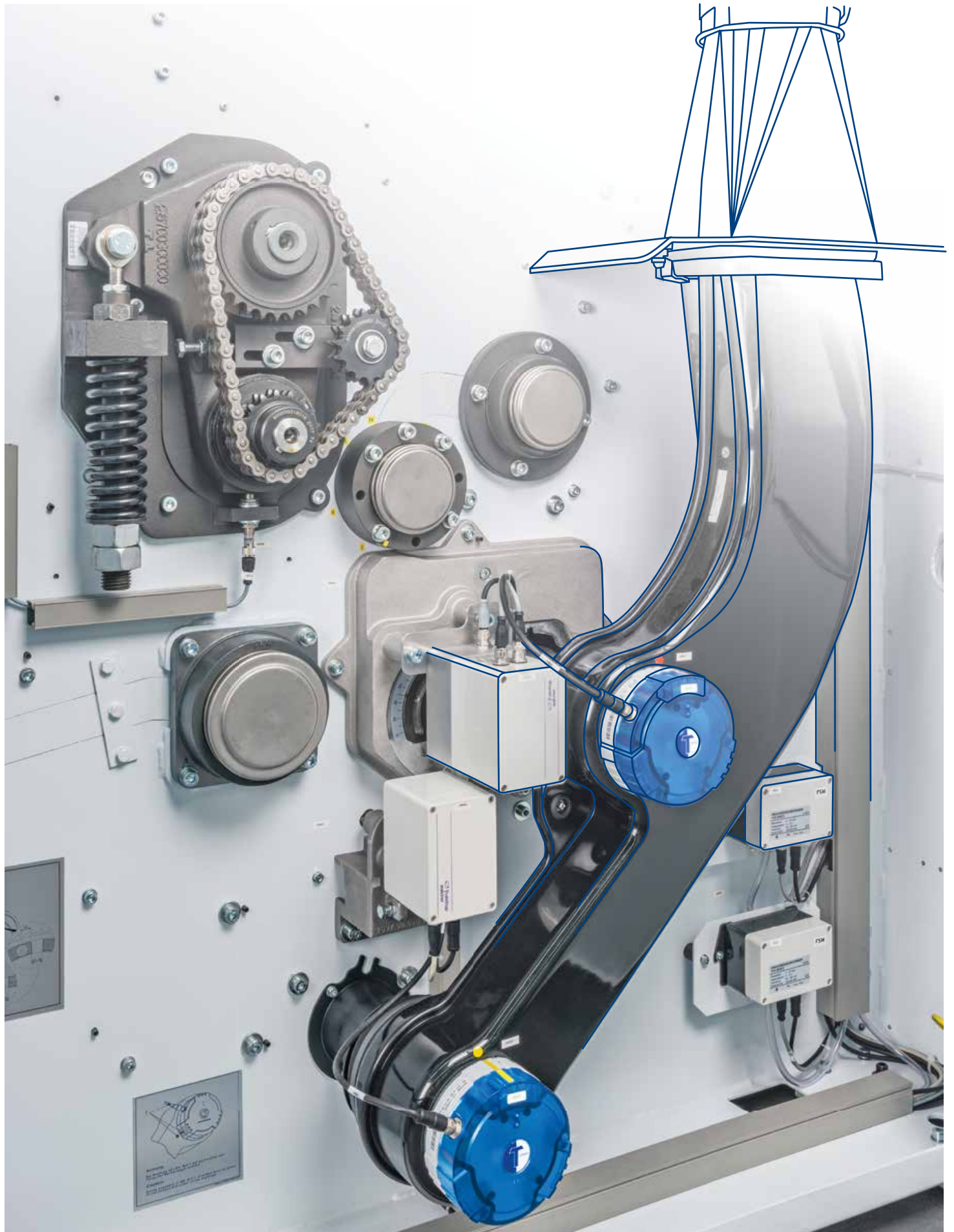
The optical sensors of our waste sensor WASTECONTROL check the composition of the waste in the suctions and detect unnecessary fiber loss in good time. The unique technology of the motor-adjustable knives and deflector blades optimizes the amount of waste.

The result is perfect cleaning, which significantly determines the economic efficiency of the entire system: Even half a percent less waste saves a considerable amount of raw material.



PARTICULARLY SMALL AND INTELLIGENT:

WASTECONTROL reduces waste and significantly lowers raw material costs.





Got you!

Using different combined detection technologies,
T-SCAN separates more foreign parts.

The supreme discipline in foreign part separation is the detection of thin, white and thread-shaped parts. Various self-optimization functions with embedded image processing technology permanently support and optimize the process. The T-SCAN TS-T5 with its five modules is the benchmark among the separators.

5 MODULES, ONE GOAL: 100 % FOREIGN PART SEPARATION

F-module detects coloured parts

G-module detects shiny parts

P-module detects transparent and semi-transparent parts

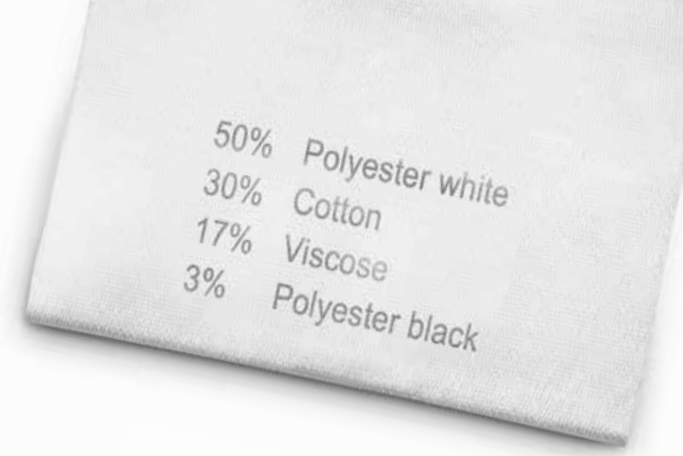
UV-module detects fluorescent parts

LED lighting detects thin, thread-shaped parts





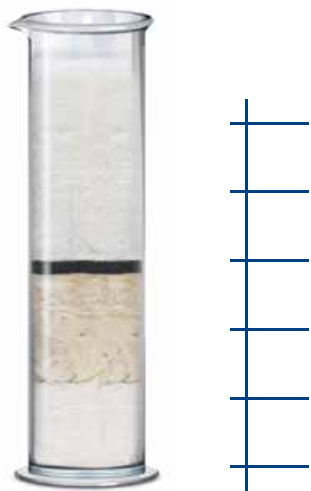
Blending accuracy within a gram



T-BLEND ensures the best reproducibility through precise weighing of the blending ratios.

Direct weighing is superior to indirect methods of weighing by volume as they are prone to a gradual deviation from the setpoint. T-BLEND determines the respective setting parameters with just a few pre-settings during lot start – automatically and in a self-optimizing manner.

Precision scales determine the exact blending ratio of each fiber type. These and other advantages can be realised by the modular T-BLEND concept for various applications.



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 of up to 1%

card

Setting standards again and again in the carding area is a trademark of Truetzschler. Our latest innovation is no exception: The TC 19ⁱ – the first intelligent card – opens up new perspectives in productivity and quality thanks to its Gap Optimizer T-GO.

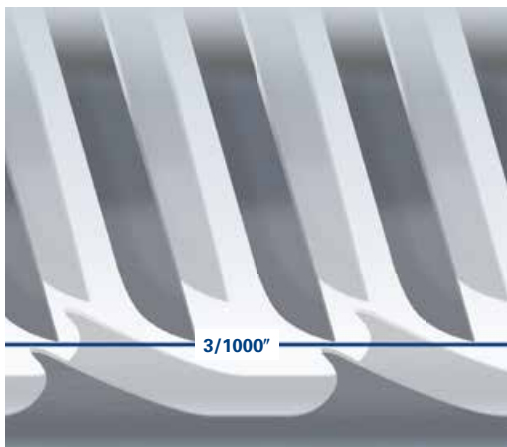


Unsurpassed intelligence

Due to its Gap Optimizer T-GO, the new intelligent Card TC 19ⁱ provides the best possible quality at all times.

A basic rule for the carding of cotton is: the smaller the carding gap, the better the quality. Up to now, keeping the distance between the cylinder and flats clothing continuously at the optimum level – with complete reliability – was an impossible dream.

Now our new card generation TC 19ⁱ makes it come true: It achieves a constant minimum carding gap of 3/1000" even under changing production conditions. Take a quantum leap, exactly at the point that is decisive for quality.



ADVANTAGES OF THE TC 19ⁱ

Optimum carding gap at all times regardless of

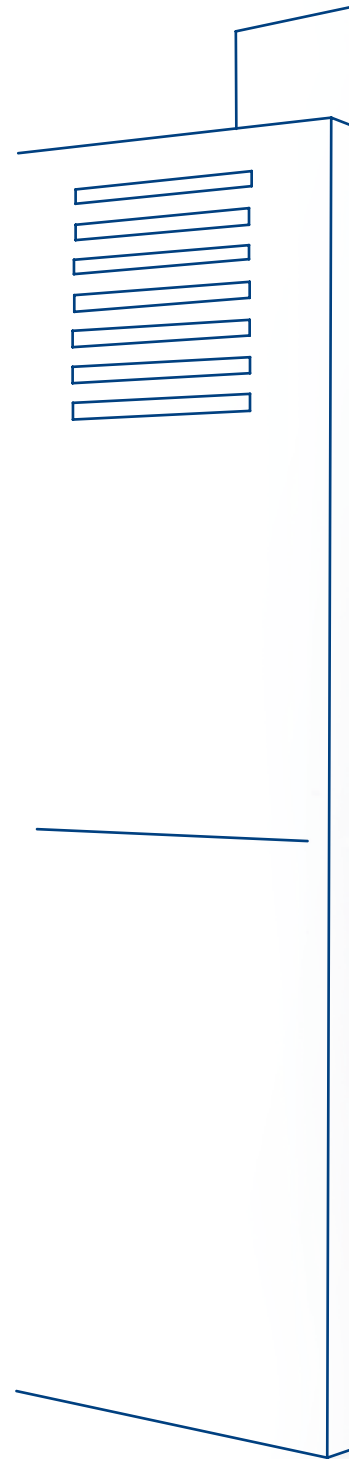
- Ambient conditions
- Material properties
- Production level

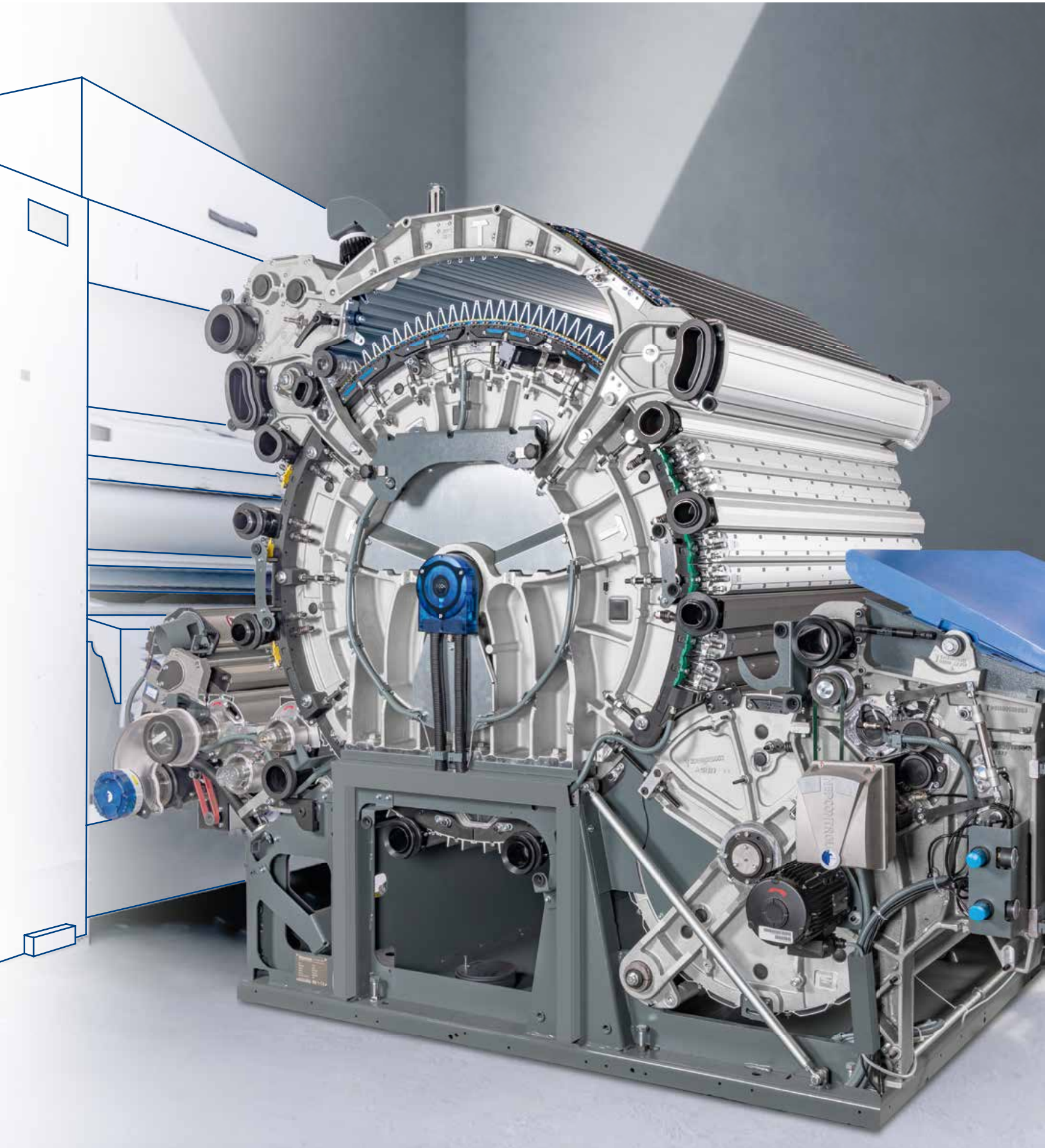
Developed by the world's best carding technologists

Knowing what's going on

T-CON 3 gathers valid data for the intelligent self-optimization of Card TC 19ⁱ.

Reliable and comprehensive information is the basis for making the right decisions. This also applies to our new Card TC 19ⁱ: It uses the data collected by T-CON 3 for optimum adjustment of the carding gap at all times. With this, T-CON 3 takes the next step: Until now, the collected data was communicated to a technician as a recommendation; now it flows directly into the self-optimization of the card via T-GO. However, T-CON 3 not only stands for efficient production, but also for safe production: If damage is imminent, a machine stop is initiated fully automatically.





Attractively efficient

MAGNOTOP 3 makes the change of flats clothings even faster and more economical

Regular changes of the flats clothings are a key to reproducible quality. Against this background, Truetzschler has developed the new MAGNOTOP 3 system together with Truetzschler Card Clothing.

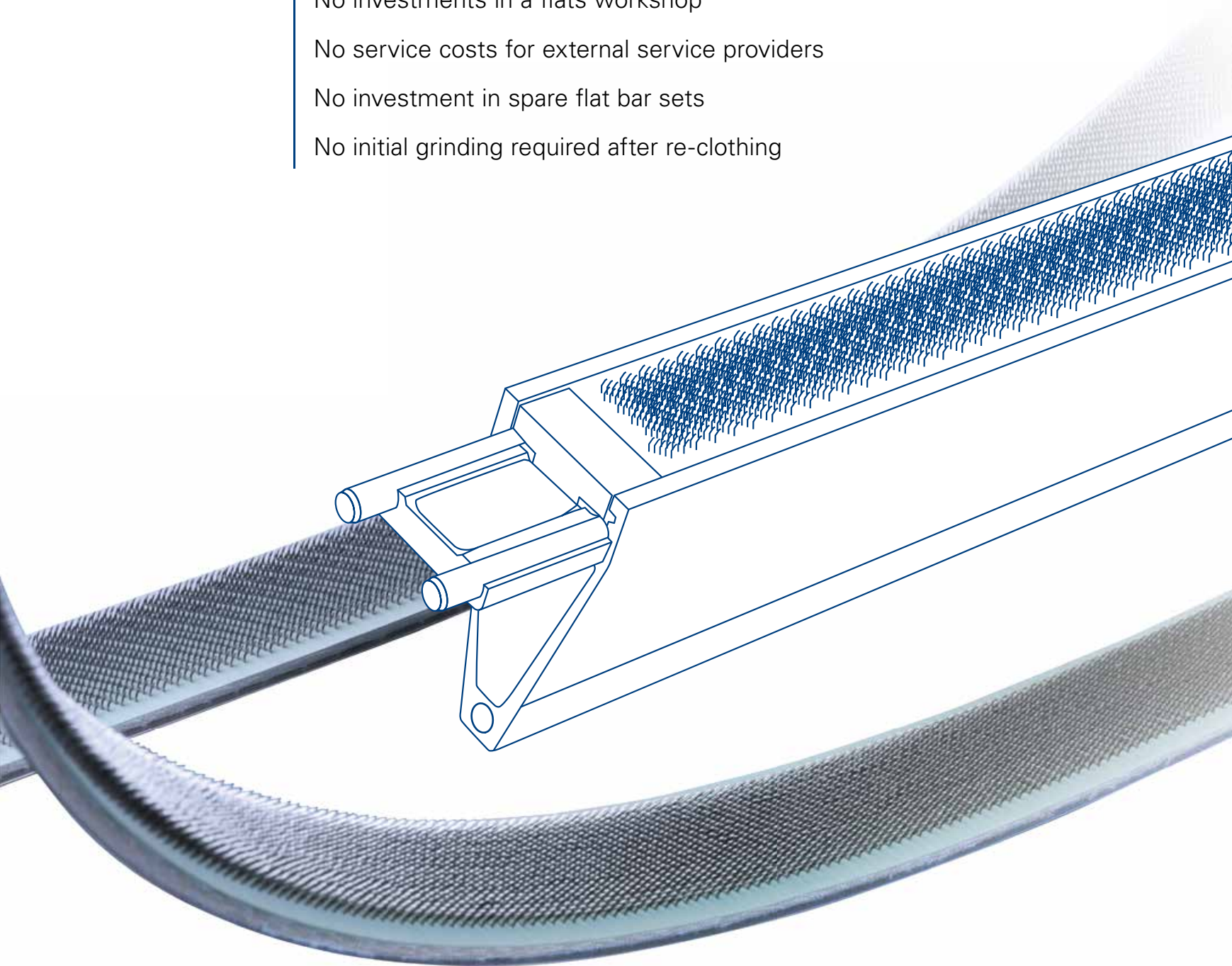
With MAGNOTOP 3, super-strong neodymium magnets secure the clothing strips on the flat bar. The advantages of this solution: Immediate perfect fit of the clothing strips at reduced tolerances, elimination of a flats workshop as well as an extended service life of the flat bars by one grinding interval*.

* Corresponds to approx. 80,000 kg card sliver



MAGNOTOP 3 ADVANTAGES AT A GLANCE

- Improved yarn quality through higher precision
- No investments in a flats workshop
- No service costs for external service providers
- No investment in spare flat bar sets
- No initial grinding required after re-clothing



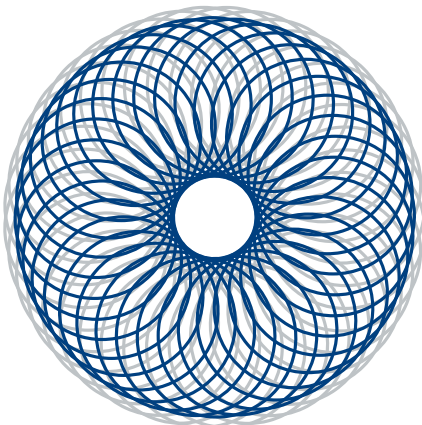


Gentler sliver coiling and fast can change

T-MOVE 2 enables faster changing of large cans even in small spaces.

Sometimes you have to reverse a principle to revolutionise it. With our T-MOVE 2 can changer the movement is carried out by the sliver feed, not by the can. Specifically, it looks like this: The sliver feed with the sliver coiling plate (moving head) moves in a straight line at high speed from the full to the empty can.

In the newly developed T-MOVE 2, the individual layers are coiled in an offset manner. This prevents pressure marks in the middle. The reduced pressure protects the sliver. The unwinding behaviour on the draw frame shows the qualitative advantages.



ADVANTAGES OF T-MOVE 2

Up to 2.4 % efficiency advantages of the card

Optimized coiling pattern

An additional 5 % more content

Improved pressure distribution in the can

Gentle to the slivers

rod draw frame

Draw frames are the quality filter for spinning preparation and thus also for your yarn quality. Thanks to reliable technology, intelligent concepts and perfect levelling, Truetzschler solutions allow optimum reproducibility of your yarn quality.

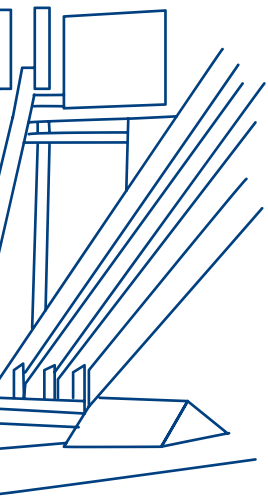
Minimum space, maximum potential

The Autoleveller Draw Frame TD 10 incorporates technical highlights more compact than ever.



Due to its clever design, the TD 10 requires on average 20 % less space than comparable competitive models. This unique compactness allows the more efficient use of production areas and savings in new construction and maintenance costs.

In addition, the TD 10 has the most energy-efficient suction system in the world; its intelligent SMART CREEL, combined with the T-LED remote display, offers unparalleled functional reliability and transparency. The display of the sliver quality can be seen from afar.

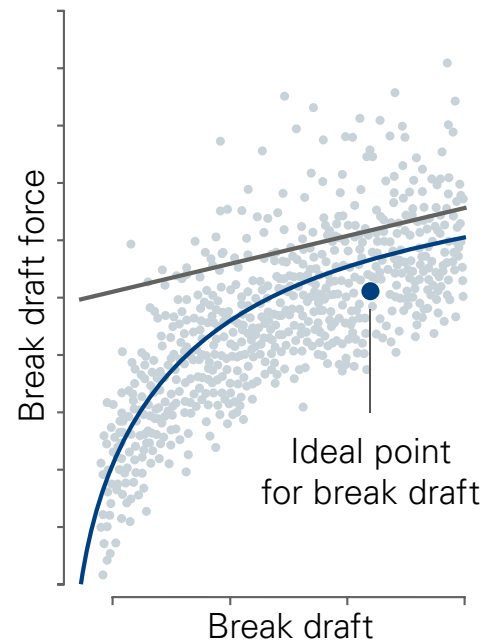


SELF-OPTIMIZATION FUNCTIONS OF THE TD 10

AUTO DRAFT –
automatic calculation of
the perfect break draft

OPTI SET –
optimal main drafting point
due to self-optimization

Self-adjusting lap monitoring
for reliable detection of
fiber laps





Double and absolutely advantageous

With the Breaker Draw Frame TD 9T, any number of drafting heads can be realised at maximum efficiency.

The TWIN BUT INDEPENDEND concept with independently operating drafting heads, but also the use of large cans up to the JUMBO CAN, significantly increase the efficiency of the machines – and production is what matters with breaker draw frames.

Efficient use is a key to high machine productions. The new concept enables efficient handling and full accessibility even to the inner cans in the creel – just walk through!



A DRAW FRAME CONCEPT FOR ALL DRAW FRAME TYPES

...reduces storage costs and tied-up capital:

- Belts
- Top rollers
- Wear parts
- Change wheels
- Delivery rollers
- Suction ducts

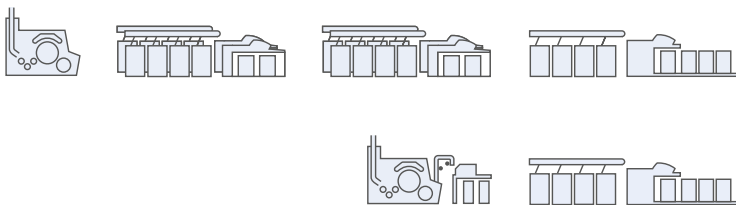
Short cut to increased economic efficiency

The Integrated Draw Frame IDF 2 can save entire process stages through direct coupling to Truetzschler cards.

Especially in times of labour shortages in the textile producing countries, a reduction of process stages in spinning preparation quickly turns into a big economic advantage.

The Integrated Draw Frame IDF 2 enables this by the direct coupling to the card and the use of a precise 2-over-2 drafting system for sliver quality as from a autoleveller draw frame.

In the rotor yarn mill, this results in a high level of yarn quality and economic efficiency, while in the air jet spinning mill considerable operational savings are achieved with one instead of three drafting passages.



PROCESS SHORTENING WITH IDF VORTEX SPINNING

In the air jet spinning mill, two draw frame passages can be saved with IDF 2.



combing

In the production of high-quality combed cotton yarns, you benefit once again from Truetzschler innovations: Our machine concepts are based on innovative drive technologies, which fully take effect through the use of direct drives – more maintenance-friendly, more flexible and more precise than conventional solutions.



Even faster

The Superlap TSL 12 accelerates the lap change and produces a first-class lap quality.

Every innovation has a core. With the Superlap TSL 12 there are even two: the lateral lap tube feeding and our multi-drive technology. It is only through the interaction of clever lap change, individually controllable and maintenance-free direct drives that lap changes can be carried out in 20 seconds. This allows you to achieve 15% higher productivity with the same settings.



MULTI-DRIVE TECHNOLOGY

- Lap separation is realised directly by drives
- Uniform lap hardness, particularly good unwinding properties
- Variable tension between the lap calenders
- Independent guidance of new batt after cleaning



Better directly

With DUAL DRIVE and 2-TWIN-DRIVE, only the Comber TCO 12 offers direct drives on both sides and thus decisive advantages.

The Truetzschler drive concept eliminates the complex and maintenance-intensive oil bath gear of conventional machines.

On the TCO 12, the detaching rollers are driven by two highly dynamic servo motors. The movement of the other 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.



ADVANTAGES OF THE 2-TWIN-DRIVE

75 % less torsion

25 % less vibration

54 % less fluctuations

Uncoupling of the motion sequence

Self-optimization function

PIECING OPTIMIZER

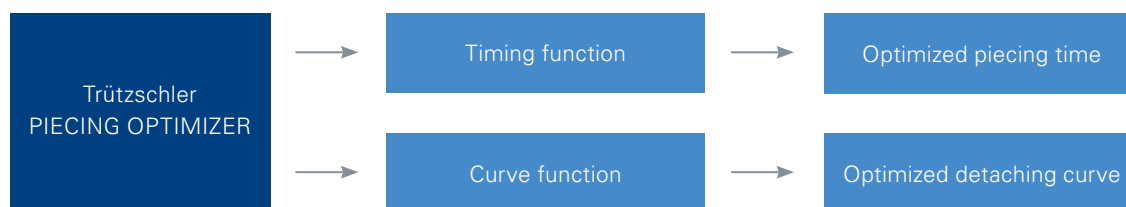
Precise

The unique self-optimization of the PIECING OPTIMIZER perfectly adjusts the piecing time and detaching curve.

On combers with conventional drive technology, the adjustment and optimization of the piecing is a very complex task that requires many tests, including laboratory tests.

With the Truetzschler PIECING OPTIMIZER, the timing function requires only one push of a button. The subsequent self-adjustment of the piecing time in the combing cycle is fully automatic.

To change the detaching curve, conventional machines would need a completely new gear box. Thanks to the decoupling of the drive, the adjustment of the detaching curve for high-speed combs via the curve function is only possible on the TCO 12.





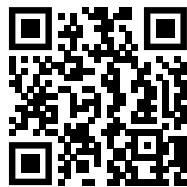
down loads



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