

Spinning preparation

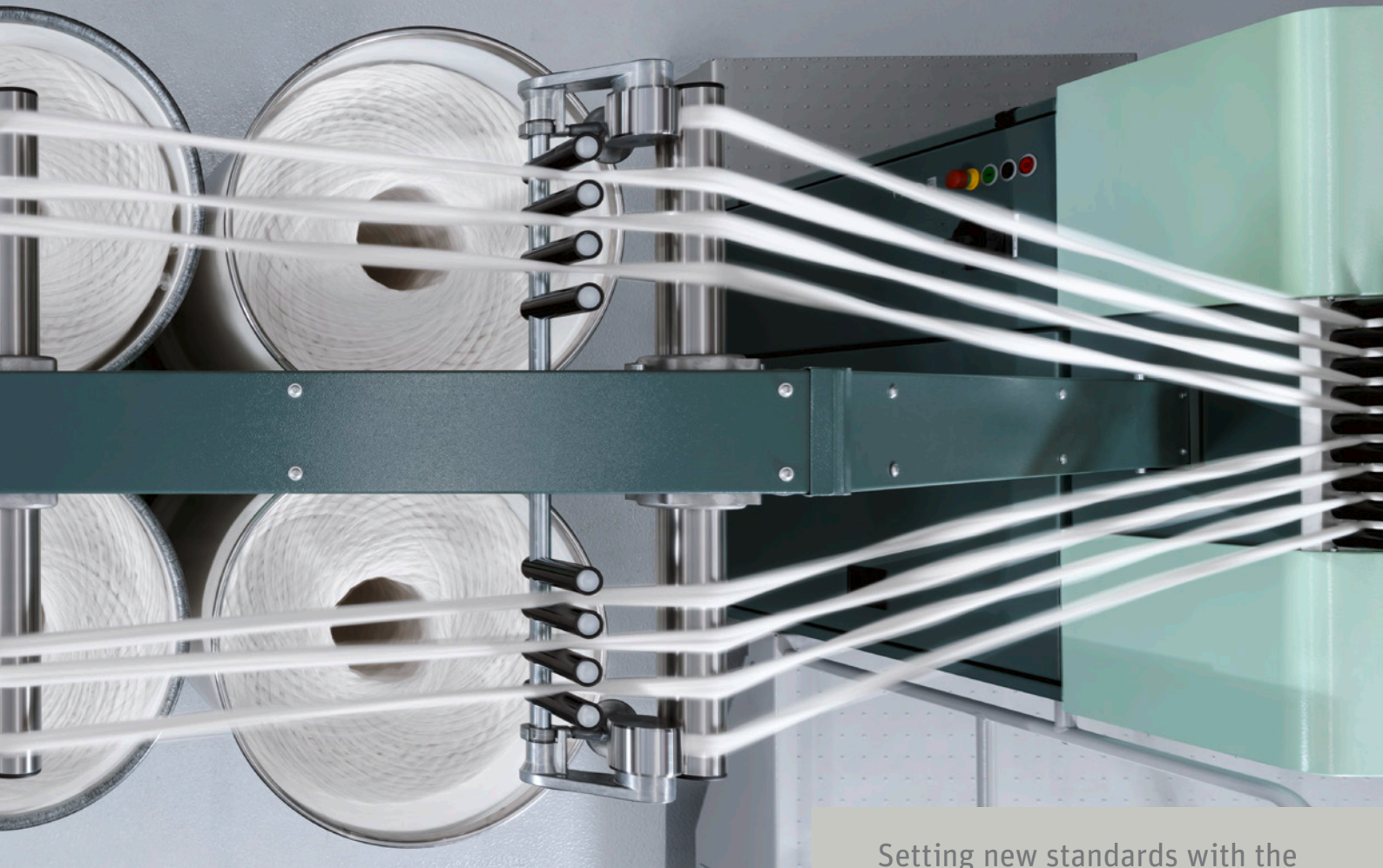
Single-head draw frames (R)SB-D 55 and double-head draw frames (R)SB-D 27

RIETER

Innovations

Single-head draw frames (R)SB-D 55

Double-head draw frames (R)SB-D 27



Setting new standards with the latest generation of draw frames

Raising the Bar

New generation of draw frames

Maximum efficiency

Rieter is launching a new generation of draw frames: the single-head autoleveler draw frame RSB-D 55 and the SB-D 55 without autoleveler as well as the double-head autoleveler draw frame RSB-D 27 and the SB-D 27 without autoleveler.

Rieter once again sets the standard for draw frames and offers solutions for the most diverse needs of spinning mills. The machines enable spinning mills to achieve the highest quality, productivity, and efficiency, also when processing recycled fibers. Innovations ensure stable running behavior for all raw materials and production speeds. The resulting high sliver quality is an ideal prerequisite for the production of high-quality yarns.



Optimized for recycled fibers



Improved suction for processing recycled fibers

The newly expanded suction ensures greatest possible cleanliness, even in the calender area. This results in longer cleaning cycles and fewer thick places. When recycled fibers are processed, 4-fold doubling can be supportive. Here, an additional web nozzle improves web guiding and guarantees fault-free operation with a high short-fiber content. The coiler CLEANcoil PES deposits slivers with a blend content of 40% recycled polyester and more without any problems. In addition, 'recycled fibers' can now be selected as an application in the expert system SLIVERprofessional. Once the raw material data has been entered, the system offers recommended settings for the entire machine.

Improved operator-friendliness

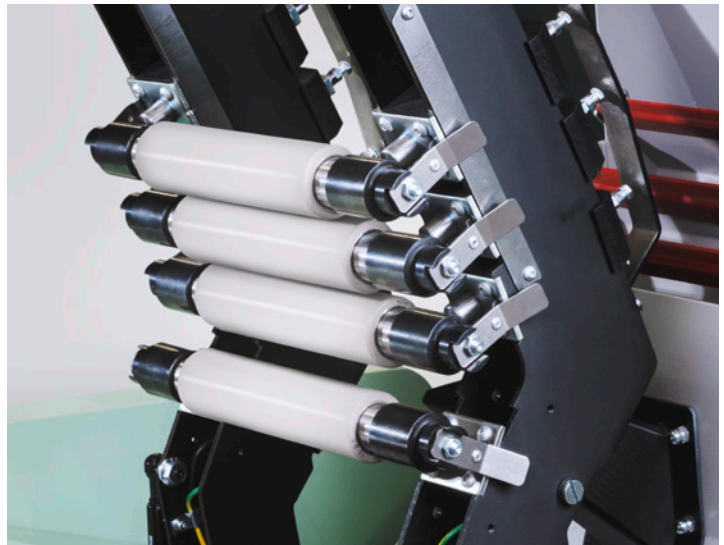


Thanks to the convenient and large 10-inch machine display with improved menu navigation, Rieter draw frames are even easier to operate. The SLIVERprofessional expert system now also makes suggestions for key setting parameters such as coiler and can plate speed, as well as for sliver spread before the drafting system.

This enables rapid material changeover and ensures excellent sliver and yarn quality.

A new level of durability

Rieter has further improved the drafting system. The new force transmission optimizes the load on the outlet cylinder. This results in less stress on the top rollers and improved fiber guidance towards the web funnel. Other innovations include life-time lubricated top roller bearings, drafting system cylinder saddle with wear inserts, active sliver infeed on all models, reinforced power creel rollers, and improved central suction. Rieter has significantly improved the robustness of the draw frame, ensuring stable operation at the highest level of quality and productivity.



New life-time lubricated top roller bearings

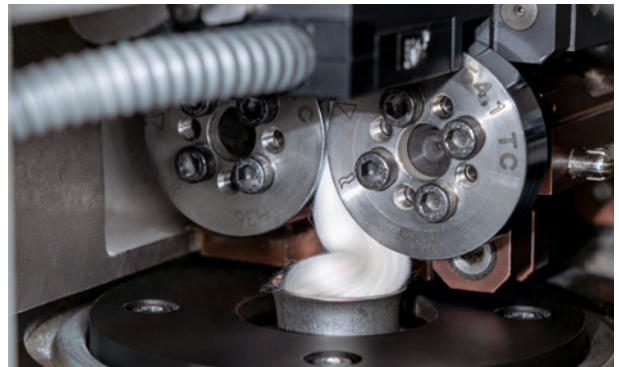
New Features in the Autoleveler Draw Frames

RSB-D 55 and RSB-D 27

Fewer sliver breaks – higher roving frame efficiency

The new autoleveler draw frames RSB-D 55/27 offer a solution to avoid blockages in the coiler tube. These effects can occur, for example, in the event of fluctuations in ambient climate or during the processing of bulky materials, and can lead to production interruptions. Previous measures, such as a larger coiler tube or a higher coiler speed, lead to reductions in sliver quality and thus yarn quality.

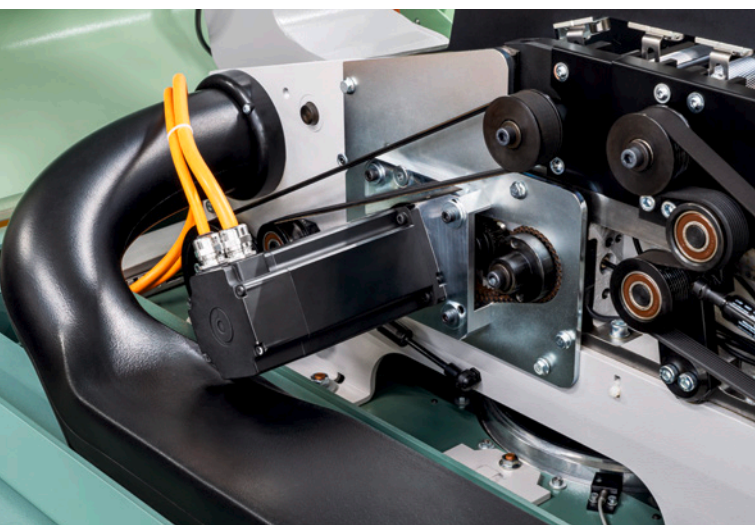
The unique solution for the RSB-D 55/27 uses the single-motor-driven coiler to eliminate possible sliver jams. This reduces operating effort and avoids sliver breaks in the draw frame, thus keeping the efficiency high at the autoleveler draw frame and in the downstream process. The last point is becoming increasingly important, especially for roving frames with more and more spinning positions, as every roving frame stop avoided means fewer thick places in roving and yarn.



Sliver jam at machine stop



Sliver jam is straightened by turning the coiler to avoid sliver jam at restart



Constant sliver cohesion at stop/start for combed cotton avoiding thin places in the yarn

Constant sliver strength during starting and stopping

Another innovative solution prevents the creation of a short length of sliver with around 50% lower sliver strength when stopping and starting. This was previously unavoidable and occurred on all draw frames. When processing combed cotton on the roving frame, this can lead to undesirable false drafts for slivers with a long distance from the can to the roving drafting system. The resulting thin place in the roving continues into the yarn. The unique, optional solution on the RSB-D 55/27 keeps the sliver strength constant while stopping or starting the draw frame and prevents such errors.

New Features in the Draw Frames without Autoleveler

Rieter Quality Monitor now also on the SB-D 55

The Rieter Quality Monitor (RQM), which is standard on autoleveler draw frames, can optionally also be used on the draw frame SB-D 55 without autoleveler. The RQM detects, for example, periodic mass fluctuations due to an out-of-round drafting system top roller. This avoids mechanical damage in the drafting system and the associated machine downtime. It enables end-to-end online quality monitoring for the entire Rieter preparation line from the card to the combing section to the autoleveler draw frame. The data from RQM can be used in the new ESSENTIALoptimize module to optimize processes throughout the spinning system.



Active sliver feeding system now also on the SB-D 27

The active sliver feeding system at machine entry is now also integrated into the SB-D 27. It guarantees reliable sliver transport even for fiber blends with different bulkiness, e.g. polyester/combed cotton blends. Furthermore, reliable sliver break monitoring is ensured even at highest delivery speeds.

Portfolio Overview of the New Draw Frame Generation

Perfect sliver quality at production speeds of up to 1 200 m/min

Autoleveler single-head draw frame



RSB-D 55

Single-head draw frame without autoleveler



SB-D 55

Autoleveler double-head draw frame



RSB-D 27

Double-head draw frame without autoleveler



SB-D 27

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