



Fig. 1: The new RSB-D 26 double-head autoleveler draw frame. Maximum productivity combined with precise autoleveling technology for high sliver quality.

## RSB-D 26 and SB-D 26 offer optimum quality and productivity on a small footprint

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**Rieter presented the new double-head autoleveler draw frame RSB-D 26 to a wide audience for the first time at ITMA Asia in Shanghai. The double-head draw frame SB-D 26 without autoleveling function is also new. Both draw frames offer a number of innovations resulting in lower production costs, better sliver quality and easier operation and maintenance.**

**Even greater performance:** The double-head autoleveler draw frame RSB-D 26 (Fig. 1) and the double-head draw frame SB-D 26 without autoleveling function complement each other perfectly. Compared to its predecessor models, the RSB-D 26 with patented ECOrized drive concept has lost a quarter of the belts, numerous drive ele-

ments and the differential gear. The frequency-controlled drive for the suction and the individual drive for the coils are unique (Fig. 2). The straight belt tracking increases the lifetime of the belts considerably.

The new drive solution allows savings of up to EUR 1500 per year and machine.

Over the lifetime of the machines, this means an extremely attractive return on the investment.

As a standard feature, the draw frames are now equipped with integrated energy monitoring. This supports preventive maintenance and can reduce the risk of machine failures.



Fig. 2: The servomotor for the coiler allows rapid optimization of the speed.

### More productivity without any loss of quality

The draw frame SB-D 26 without an autoleveling function and the autoleveler draw frame RSB-D 26 produce, in practice, at a delivery speed of up to 1200 m/min. Depending on the fiber material, this means that up to 33% higher speeds compared to predecessor models are possible. The excellent scanning precision and high autoleveling dynamics of the RSB-D 26 ensure the high level of quality.

### Further optimized drafting system

Conventional sliver guides in front of the drafting system pose a risk of incorrect adjustments. The most common consequence of this is non-centric guidance of the slivers and the resulting disturbing faults in the yarn. The patented sliver guide of the new D 26 generation guarantees centric guidance of the slivers at all times (Fig. 3). The web width is set to a reproducible dimension by simple turning of the guide elements. Additional fiber guides in the main drafting field prevent lateral slipping of the edge fibers. As a result, there are fewer disturbing faults in the yarn.

Due to the reduced heating of the lifetime lubricated top rollers, the lifetime is increased and maintenance is reduced. Active sliver separation by the RSB-D 26 ensures trouble-free can changes when processing chemical fibers. A thin place is deliberately created for this purpose in the autoleveler drafting system which breaks during the subsequent can change.

### Clean sliver coiling

The CLEANcoil coiler is suitable as standard equipment for all fiber materials. The spiral coiling tube ensures coiling without drafting faults. Even at high delivery speeds. The honeycomb structure on the coiler underside reliably prevents deposits.

The CLEANcoil-PES coiler for processing 100% polyester (Fig. 4) is new. A special type of coating offers unique advantages in coiling. Even with critical polyester fibers, the production time until the next cleaning cycle can be doubled. This leads to more consistent sliver and yarn quality.

For cotton the CLEANtube equipment ensures sliver coiling without accumula-

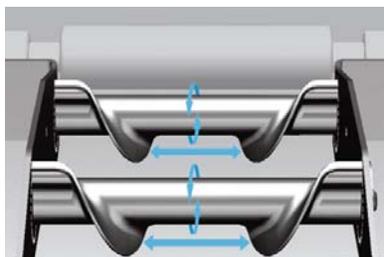


Fig. 3: Patented sliver guide for consistent and reproducible quality.



Fig. 4: CLEANcoil-PES: The coiler with a special surface for 100% polyester doubles the production time until the next cleaning.

tions of trash. The intelligent control of the coiler drive ensures that no trash particles and short fibers accumulate in the sliver duct. The sliver coiler can be quickly optimized during operation if necessary. Individual drives for the can plates allow convenient adjustment of the speed and direction of rotation on the display.

### Touch display and LED displays for efficient operation

The SB-D 26 and RSB-D 26 use the latest generation of controls with a colored touch display. This allows quick and easy operator guidance. LEDs visible from a distance provide information about the status of the draw frame, provide clear indications for the operator and also allow efficient work (Fig. 5).

### Technological expertise in the machine display

Once the raw material data has been input, recommended settings for the whole machine appear on the display. A good standard quality can therefore be achieved even when specialists are not available or the staff are inexperienced. The basis is the well-known SLIVERprofessional expert system that is now incorporated into the machine control. Settings can quickly be correctly transferred to other machines via a USB interface. SLIVERprofessional also provides assistance with analyzing faults, for example by displaying periods and draft waves in the spectrogram. Operators can

thus quickly rectify faults and increase the availability of the machine. Connection to the Rieter SPIDERweb mill monitoring system is possible and helps improve the efficiency of the system.

### Minimal space requirements

The small footprint of the machines makes them ideal for applications where space is limited. With a machine width of less than three meters, the SB-D 26 is not only the most compact of its class but, together with the RSB-D 26, also forms the most compact draw frame line on the market. Both models allow mounting both on the floor of the hall and recessed into the floor. For maximum flexibility regarding sliver feed there is a selection of variants with cans arranged in two, three or four rows to ensure maximum flexibility for sliver guidance.

### Established benefits preserved

The new generation of draw frames includes all the unique and in some cases patented features of the predecessor models SB-D 22 and RSB-D 24. The completely independent sides of the machine and the autoleveling of the RSB-D 26 guarantee high sliver quality on both heads. A sensor ensures exact first sliver coils, even with cans where the plates are too low. Constant suction in the drafting system and lifting cleaning lips on the top rollers guarantee the best Classimat values in the yarn.

With the new RSB-D 26 and SB-D 26 draw frames, Rieter has set another milestone in draw frame engineering with the declared aim of offering the customer the best possible machine quality for their mill. ♦



Fig. 5: The clearly structured display with LEDs visible from a distance allows easy and efficient operation.