

## The Draw Frame RSB-D 26 Paves the Way for High-Quality Rotor Yarn Made From Recycled Material



Guangrao Shunyuan Textile Co. Ltd., located in the heart of Guangrao County, Dongying City, Shandong Province, China, is a proof of success in the world of rotor spinning mills. Shunyuan Textile focuses on converting the inner part of quilts into coarse recycled rotor yarn which is in great demand on the market. At the core of Shunyuan Textile's yarn manufacturing process are the autoleveler draw frames RSB-D 26 followed by rotor spinning machines R 37. The draw frames are fundamental to produce consistently high-quality yarns, coupled with outstanding productivity.

### The Challenge

Shunyuan Textile faces several challenges that demand their attention. During the opening of recycled raw materials – especially when processing the inside of quilts – a high amount of dust and short fibers, is encountered. This leads to significant instability in sliver quality, which has a negative impact on downstream processes.

Maintaining a consistently high level of sliver and corresponding yarn quality is therefore a pressing challenge for Shunyuan Textile.

The shortage of skilled operators is another major challenge for Shunyuan Textile and the whole textile industry. Therefore, Shunyuan Textile is forced to invest in highly automated machines, which guarantee a consistent quality and quantity.

### The Solution

Rieter's double-head autoleveler draw frame RSB-D 26, offers a range of advantages, especially for processing recycled raw materials.

The RSB-D 26 shines by operating at the highest production speeds of up to 1 200 m/min and this while maintaining perfect and consistent sliver quality. Equipped with a highly efficient suction system containing lifting cleaning lips and four suction nozzles, this draw frame ensures a smooth and trouble-free 24-hour operation. This reliability is invaluable in the textile manufacturing process.

In addition, the RSB-D 26 offers the expert system SLIVERprofessional, which recommends draw frame parameters. This expert advice reduces the dependence on skilled workers and ensures optimal performance.



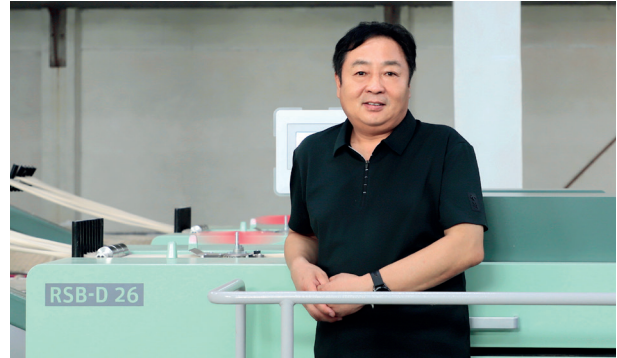
CLEANtube - the option for intelligent control of the coiler speed - avoids that trash particles and short fibers (called "mouse") accumulate on the top sliver layer.

## The Customer's Benefits

Shunyuan Textile benefits from a variety of advantages by using the Rieter RSB-D 26:

- **Unparalleled productivity:** The RSB-D 26, which can reach a delivery speed of up to 750 m/min when processing recycled inner parts of quilts, pushes Shunyuan Textile to the top of productivity. Even at this high speed, the machine consistently produces sliver of superior quality.
- **Minimal lappings:** Thanks to the integration of large top rollers and lifting cleaning lips, the RSB-D 26 operates with minimal lappings, thereby achieving maximum productivity. This not only reduces downtime but also operator workload.
- **Enhanced yarn quality:**
  - **Evenness (CVm%):** Improved from 12.5% (draw frames of competitors) to an impressive 11% with the RSB-D 26.
  - **Thick places:** Reduced by half compared to competitor draw frames, precisely from 80 (competition) to just 40 with the RSB-D 26 per 10 000 meters.
- **High raw material yield** due to consistent sliver weight even during stop/start phase: The RSB-D 26's precise autoleveler system ensures consistent sliver weight during stop/start phases, eliminating the need for operators to remove layers of inferior sliver, a task often required with competitor machines. This results in significant savings of approximately 140 000 CNY annually.

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## The Customer's Statement

*"I've never had to worry about the quality of my yarn, thanks to the unwavering consistency provided by the Rieter draw frame RSB-D 26. With this level of excellence in yarn quality, I receive numerous order requests daily, which has led me to consider expanding my production capabilities. The Rieter autoleveler draw frame has consistently proven to be the best choice for me."*

**Wang Jiaxiu,**  
Owner of Shunyuan Textile

With the unique feature CLEANtube, Shunyuan Textile avoids the creation of the so called "mouse". This means less work for the operators to remove them. This not only reduces workload but also minimizes sliver waste.

Shunyuan Textile's investment in the RSB-D 26 and the support of the SLIVERprofessional system resulted in higher productivity, improved quality, and significant cost savings – also in terms of workforce.

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