

RSB-D 50c: Key factor for highest quality and consistency with lowest manufacturing costs



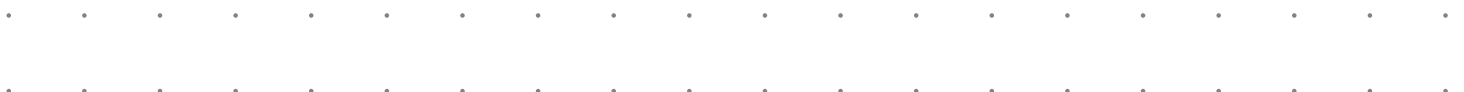
Suzhou Sishon Biofibre Co., Ltd. is part of the Yingxiang Group and is located in Suzhou. The company processes cotton, viscose, polyester, and their blends.

The Challenge

As a new player in the air-jet yarn market, Suzhou Sishon aims to become one of the largest air-jet yarn producers in China. Its air-jet yarn counts range from Ne 10 to 60. The goal is to achieve an air-jet yarn with an excellent reputation on the market for quality and consistency. Rising costs for energy and labor demand energy saving solutions including automation. To achieve all these targets, Sishon needs to make a careful decision regarding its investment in equipment, especially in draw frames. The draw frame is the key factor in air-jet yarn production.

The Solution

Sishon uses three draw frame passages. It decided to invest in 46 SB-D 22s draw frames and 52 RSB-D 50c draw frames. With the newest generation of autoleveller draw frame, the RSB-D 50c draw frame supports the customer in producing high-end yarn with consistent quality from different raw materials, such as cotton, viscose, polyester, and their blends.





Easy and quick handling of the machine

The Customer's Benefits

As the last draw frame passage, the RSB-D 50c runs perfectly with two passages of the prefixed SB-D 22s draw frame. The sliver produced in this way directly feeds the next process stage with a 50% higher level of production, and even higher sliver quality. In one of its workshops, three operators and two mechanics run 10 SB-D 22s and 10 RSB-D 50c. For the same production, they need five operators and three mechanics in a workshop with machines from other suppliers. This means that the installation with Rieter draw frames saves 40% of the number of operators and 35% of the number of mechanics. The RSB-D 50c draw frame guarantees accurate running of the air-jet spinning machine at highest efficiency and quality. The machine processes different raw materials with a yarn count ranging from Ne 10 to 60.

| Draw frame | Traditional | RSB-D 50c |
|--------------------|--------------------|---------------|
| Product | Air-Jet yarn Ne 30 | |
| Raw material | 100% viscose | |
| Sliver weight [Ne] | 0.14 | 0.14 |
| Output can [mm/mm] | Ø 500 x 1 200 | Ø 500 x 1 200 |
| Uster sliver [CV%] | 2.8 – 3.0 | 2.2 |

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The Customer's Statement

"The newest generation of the Rieter draw frame, the RSB-D 50c, runs perfectly with the prefixed SB-D 22s draw frame. This guarantees the highest quality and consistency of our air-jet yarns with lowest manufacturing costs."

Mr. Shen Jiakang
 General Manager
 Suzhou Sishon Biofibre Co., Ltd.



Mr. Shen Jiakang, General Manager, Suzhou Sishon Biofibre Co., Ltd.

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