

## Draw Frame Mini Kit Improves Sliver and Yarn Quality



After many years of successful operation, Shri Rohith Spinners Pvt. Ltd.'s autoleveler draw frames were showing signs of wear and tear. They turned to the draw frame mini kit, which helped improve sliver unevenness by 8%, the deviation rate by 52%, and yarn imperfections by 14%.

### The Challenge

Shri Rohith Spinners Pvt. Ltd. is a renowned producer of premium-quality polyester yarn. The ageing autoleveler draw frames RSB-D 22 combined with the intense competition in the yarn market prevented the mill from achieving consistent yarn quality. As their machinery aged, Shri Rohith struggled to balance quality control with an optimal maintenance budget. Additionally, the customer encountered difficulties in sustaining machine efficiency, largely due to a reliance on corrective maintenance practices. This situation is common among many mills. A strategic investment in the right parts, however, can provide a sustainable solution, ensuring long-term cost savings and enhanced operational efficiency.

### The Solution

Rieter's after-sales team provided a modular maintenance concept designed to offer a structured and simple maintenance approach. This concept consists of three kits: the mini kit, the performance kit and the overhaul kit. Shri Rohith Spinners implemented the draw frame mini kit to its RSB-D 22 machine. The kit consists of key consumable components from the scanning and drafting zone, which have a lifetime ranging from one to three years depending on the raw material and process parameters.

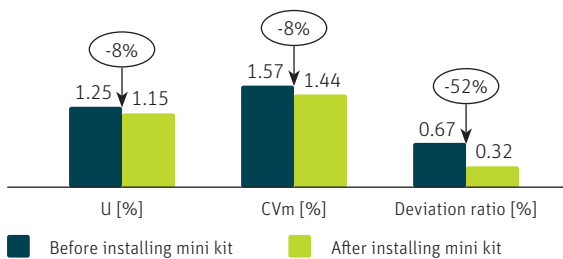
The aim of the draw frame mini kit is to enhance sliver quality and increase machine efficiency by minimizing machine downtime. Key components like belts, top roller cots, clearer lips, grease and clearer plates are crucial in achieving optimal sliver quality and uninterrupted production.

## The Customer's Benefits

Following the installation of the draw frame mini kit on the RSB-D 22 machine, Shri Rohith Spinners experienced a significant improvement in both sliver and yarn quality. Sliver unevenness (U%) and coefficient of variation (CV%) were reduced by 8%. The 52% reduction in deviation ratio (DR%) in sliver helps to achieve better yarn evenness, which results in better yarn strength and uniform fabric appearance. Quality improvement in yarn was also observed as the yarn imperfections (IPI) dropped by 14%. Additionally, there was a notable reduction in spectrogram and classimat faults.

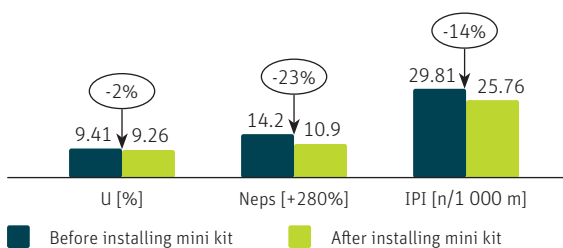
The draw frame mini kit is compatible with various models, including RSB-D 50, RSB-D 45, RSB-D 40, RSB-D 26, RSB-D 24 and RSB-D 22. It can be ordered through Rieter's webshop ESSENTIALorder.

**Sliver quality improvements with the installation of draw frame mini kit**  
RSB-D 22, 100% polyester, Ne 30, 600 m/min, draft 6.22



Sliver quality improvements with the installation of draw frame mini kit

**Yarn quality improvements with the installation of draw frame mini kit**  
RSB-D 22, 100% polyester, Ne 30, 600 m/min, draft 6.22



Sliver quality improvements with the installation of draw frame mini kit

**Rieter Ltd.**  
Klosterstrasse 20  
CH-8406 Winterthur  
T +41 52 208 7171  
machines@rieter.com  
aftersales@rieter.com



## The Customer's Statement

*"After installing the draw frame mini kit, we saw substantial improvements in both sliver and yarn quality. The reduction in sliver deviation ratio and yarn imperfections were remarkable. We thank the Rieter after-sales team for providing this effective maintenance solution."*

**N Velusamy**  
General Manager, Shri Rohith Spinners Pvt. Ltd., India

## Shri Rohith Spinners Pvt Ltd.Ltd.

SF No 448/1, 2, 3 Patharai Village  
Veppadai, Erode  
Tamil Nadu 638 008, India  
Fax: +914288279605  
Phone: +914288279356

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