

R 36: Spinning Waste with High Efficiency and Quality



The Chinese company Shaanxi Yinhua Textile Co., Ltd. is located in Qian county, Xianyang city, Shaanxi province. The company primarily produces combed ring and compact yarn with 62 000 spindles. The main end product is combed compact yarn with a yarn count of Ne 60. With two semi-automated rotor spinning machines R 36 that have 920 rotors in total, Yinhua uses noils, carding waste and cotton to produce weaving yarn in Ne 16, Ne 21, and Ne 32. A daily output of 2.78 tons can be reached when producing yarn in Ne 32. The yarn is mainly sold to the Jiangsu province, the Zhejiang province and other Chinese regions.

The Challenge

Due to the relatively high trash content in the raw material, the yarn is prone for more ends down and the maximum rotor speed on the semi-automated rotor spinning machine is limited. The challenge for such applications for most Chinese enterprises, including Shaanxi Yinhua Textile, is to achieve high productivity with high rotor speeds.

The Solution

The spinning box of the semi-automated rotor spinning machine R 36 controls the fiber flow optimally and has improved fiber guidance in the feed and opening area. These enhancements result in a good spinning stability and an optimized yarn tenacity. The R 36 also features high-quality, high-speed rotor bearings that allow running the machine with higher rotor speeds.



The Customer's Benefits

The R 36 processes blowroom and card waste at a speed of 110 000 rpm very smoothly and stably. Compared to competitor rotor spinning machines, the rotor speed on the R 36 is 5 000 to 10 000 rpm higher, whilst less ends down and yarn faults occur. The overall efficiency of the machine reaches 99.8%, which is a perfect machine running condition for the mill.

Shaanxi Yinhua Textile finds the R 36 easy to operate: no tools are required to remove and to install the spinning box, and the rotor bearings can be re-greased without being removed. Thus, the easy operation can reduce the labor effort and the turnover rate of operators, which leads to less manpower costs. The investment return period of a Rieter rotor spinning machine R 36 is approximately 1.5 years. This is mainly thanks to the high speed, high productivity and energy saving characteristics of this machine as well as the excellent management experience and cost control of Shaanxi Yinhua Textile.

Due to the consistent and high yarn quality, the rotor yarns in Ne 16 and Ne 21 produced by Shaanxi Yinhua Textile are widely accepted in the market.

Taking the Ne 21 yarn as an example: Due to the consistent yarn quality, the yarn has an excellent performance in the downstream weaving process.



Perfect running conditions at Yinhua Textile: 99.8% efficiency

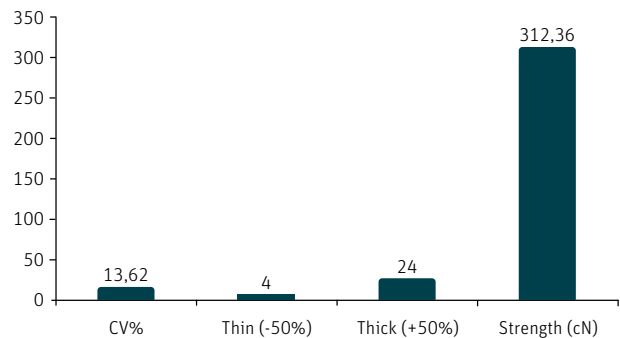


The Customer's Statement

"The R 36 is the ideal choice for semi-automated rotor spinning. The machine features high productivity, excellent quality, and energy saving. It is user friendly and has a short return-on-investment period."

Mr. Lianying Cao

General manager of Shaanxi Yinhua Textile Co., Ltd



Excellent results for the downstream process

Shaanxi Yinhua Textile Co Ltd

3 Industrial Zone Qianxian

Shaanxi Prov

China 713300

T: 029-35416655

F: 029-35416966

caogaoying@126.com

Rieter Machine Works Ltd.

Klosterstrasse 20
CH-8406 Winterthur
T +41 52 208 7171
F +41 52 208 8320
machines@rieter.com
aftersales@rieter.com

The data and illustrations in this brochure and on the corresponding data carrier refer to the date of printing. Rieter reserves the right to make any necessary changes at any time and without special notice. Rieter systems and Rieter innovations are protected by patents.

3356-v1 en 2004

www.rieter.com