

# Shandong Zhink

## A clear winner for customers



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### Uster's RSO 3D system proves its value in yarn comparisons

After successfully installing and operating the Uster RSO 3D system, Chinese spinner Shandong Zhink was able to prove its real commercial impact through customer comparisons. Yarn from the company's Unit 3 mill – produced using RSO 3D – was a clear winner when matched against yarn from the company's other sites.

The customer noted significant improvements in yarn quality from that mill, confirmed by better physical parameters and its appearance in fabrics.

According to General Manager Mr Changjin Ding, this customer now specifies its preference for the Unit 3 product, so that "we can plan to adjust the price of this yarn, which will bring us more profits."

The benefits of RSO 3D in the mill accrue in terms of more efficient production throughout spinning and winding, facilitated by inline monitoring that allows rapid reaction to issues. The potential for increased profitability arises from reliable and consistent yarn quality, which strengthens Shandong Zhink's industry reputation and its competitive position.

Among major advantages of the new system is the eradication of weak twist yarns, through tracking and tracing of problem spinning positions before the yarn reaches winding.

Says Mr Changjin Ding: "Now, the total number of clearer cuts in 100 km of yarn clearer is reduced by about 15, which greatly increases the efficiency of the winder. At the same time, the overall quality of the yarn has been improved, so that we have a better reputation among customers."

The ability of RSO 3D to identify potential issues before they occur is an added benefit, he says: "For example, in case of slight damage to the roller of the spinning machine, the impact on the CVm is not large enough to trigger an alarm, but could cause an unwanted increase in thin places. RSO 3D enables us to take precautionary measures in advance, to prevent more serious quality problems with the potential for economic losses."



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### Interview with Mr. Changjin Ding, General Manager

Facing a problem with weak twist yarns, and needing to improve both production routines and quality monitoring, Shandong Zhink opted to install the Uster RSO 3D preventive monitoring systems for the ring spinning and winding operations at its Unit 3 mill.

With 46,800 spindles, the mill employs 170 people, exporting 30% of total output to customers in China, Asia, the Middle East and Russia. Main products are polyester blends and cotton/flax yarns.

In this interview, General Manager Mr. Changjin Ding reports on the impact of RSO 3D, in improving production, pinpointing quality issues with real-time monitoring and generally raising yarn quality to levels that have enhanced the company's reputation with customers and added extra profitability to the business.



#### How is the market at the moment? Is competition tough?

The market situation is not good. Yarn buyers are increasing their expectations and the market is very competitive.

#### In terms of your production, which issues did you identify as needing improvement?

We have noted occasional customer complaints about weak twist yarn. This is an issue which we could only control manually. It's very time consuming, and what's worse, it's not accurate or quick enough. For the purposes of yarn quality management, daily lab tests cannot meet our needs. It takes a long time for the lab to test all the spindle positions – and we won't know about any quality issues until the tests are over.

#### How did you solve these problems?

We installed the Uster RSO 3D system in our Unit 3 mill. It provides real-time inline monitoring, to ensure yarn quality is stable and consistent. If there is a fault in the operation of the machine, or any quality exception, an alarm will be alerted, so that we can solve the problem more quickly. Furthermore, the interaction of Sentinel and Quantum can prevent bobbins with quality problems from reaching the winder, which has improved the overall product quality.

#### What has been the impact on production?

In case of problems in winding, it is now easy for us to trace it back to the affected bobbin position on the spinning machine. That means we can take immediate actions.

It can help us locate any damaged spare parts quickly, and if necessary adjust the replacement cycle for the relevant parts based on the inline monitoring data. This helps to ensure high-quality yarn production.

#### Has improving these production aspects had an influence on the company's business performance?

After more than a year of use, the biggest impact RSO 3D has had on our business is the positive feedback we have received from our customers. Our Unit 3 mill (with RSO 3D) and two other units all supplied the same product to an overseas customer. Later, the customer reported that the yarn quality from Unit 3 was better than that from the other mills. They noted benefits in both physical indicators and fabric appearance. As a result, the customer indicated that it would prefer to receive products produced by Unit 3. Now, we can plan to adjust the price of yarn from this unit accordingly, which will bring us more profits.

#### Mr. Changjin Ding – Thank you very much for these valuable insights.

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#### Customer Statement

“ Thanks to the powerful functions of RSO 3D, we can easily trace problem bobbins, to prevent weak twist yarns being produced. Winding is also more efficient, as clearer cuts are reduced.

At the same time, the overall quality of the yarn has been improved, so that we have a better reputation among customers.”