

Doubling Speed, Elevating Quality with NEO-BD



Hebei Jingze Textile Co., Ltd. — a leading sewing thread producer in China — has set a new benchmark for precision winding by integrating SSM's NEO-BD precision assembly winder into its operations. With this step, the company achieved a 100% speed increase, higher yarn quality, and greater process reliability — all while meeting rising customer demands for consistency and performance.

The Challenge

The company's existing winding systems had reached their limits, operating at approximately 500 meters per minute and struggling to maintain consistent package weights. Variations of up to 30 grams were common, creating inefficiencies in downstream processes and increasing the risk of defects. Scaling production without sacrificing quality had become a critical challenge. Under growing pressure from customers to reduce hairiness, offer flexible package weights, and eliminate defects — all while doubling production speed — Hebei Jingze turned to SSM's NEO-BD technology for a solution.

The Solution

After trials and comprehensive demonstrations, Hebei Jingze adopted SSM's NEO-BD precision assembly winder, designed for speed, control, and consistency. Equipped with preciforce back-pressure regulation and digitens online tension monitoring, the NEO-BD ensures uniform package density and real-time tension control. Its high-accuracy length and weight measurement system delivers consistency within $\pm 0.3\%$, while the machine's capability to reach winding speeds of up to 1 600 meters per minute represented a dramatic leap forward.



Counter-rotating blade system: the heart of the NEO-BD's yarn-friendly winding technology, enabling high speeds with minimal yarn stress

The Customer's Benefits

The impact was immediate. Hebei Jingze doubled its winding speed, significantly reducing production time while improving yarn quality. Package weight variations dropped to less than 10 grams, enabling smoother downstream operations and reducing waste. Longer production runs became possible thanks to heavier, perfectly uniform packages, and the flexibility to produce different package weights allowed the company to adapt to varying customer requirements. Defects that once plagued the process were virtually eliminated, resulting in superior end-product quality and enhanced customer satisfaction.

Encouraged by these results, Hebei Jingze expanded its investment in NEO-BD technology, setting a new benchmark for precision winding in the industry. The combination of speed, consistency, and reliability has not only strengthened the company's competitive position but also paved the way for sustainable growth in an increasingly demanding market.



The Customer's Statement

"After trials and comprehensive demonstrations, we believe that SSM's assembly winders can perfectly meet all our demands for product upgrades."

Liu Ruigang,

Owner of Hebei Jingze Textile Co., Ltd.

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3841-v1 en 2511

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