Rieter at ITMA Asia 2025: Shaping the Future with the Fully Automated Spinning Mill

At ITMA Asia + CITME 2025, held from October 28–31 in Singapore, Rieter, the world's leading supplier of systems for manufacturing yarn from staple fibers, unveiled a portfolio of innovations that bring the industry closer to its **Vision 2027: the fully automated spinning mill**. With a rich heritage of 230 years, Rieter has once again demonstrated how its technological leadership combines **automation, digitization, sustainability, and efficiency** to empower spinning mills worldwide.

Automation and Digitization – Gateway to the Future

Rieter's exhibit emphasizes **step-by-step automation** for ring and compact yarn production.



- Key highlights include **automated bale transport, can transport, and fully automatic packaging solutions** such as steaming, palletizing, and labeling.
- On the digitization front, Rieter's **ESSENTIAL modules** provide mill management and operators with real-time data, enabling smarter decisions, optimized processes, and improved production outcomes. This integration ensures spinning mills are better equipped to face challenges of cost, labor availability, and global competitiveness.

OMEGAlap E 40 – Redefining Combing Preparation

The new **OMEGAlap E 40** delivers a productivity boost of **800 kg/h** – 33% higher than its predecessor.



- Energy consumption is reduced by **30%**, while compressed air consumption drops by **63%**.
- The machine also simplifies maintenance and cleaning, enhancing operational ease for personnel.

This breakthrough positions Rieter as a clear leader in combing preparation technology.

SPINNING

NEO-BD Precision Winding – Faster and Smarter

Rieter's **NEO-BD precision winding machine** sets new benchmarks for winding quality and speed.



· Produces yarn packages at **twice the speed** of its predecessor.

· Guarantees **precision in package density, yarn length, and weight consistency**, meeting stringent industry demands.

This ensures higher productivity while maintaining exceptional yarn quality.

J 70 Air-Jet Spinning – Efficient Use of Carded Cotton

The **J 70 air-jet spinning machine** introduces a new twist element designed for **cost-effective carded fiber spinning**.

· Elevates production speed while maximizing raw material utilization.

· Opens new possibilities for mills using diverse fiber blends, delivering efficiency with adaptability.

eNASA Spindle – Energy-Saving Performance

The newly launched **Novibra eNASA spindle** reduces spinning machine power consumption by **2% to 4%** compared to conventional spindles.



· Especially effective at high speeds, ensuring energy savings without compromising performance.

· Compatible with all Novibra clamping crowns, allowing seamless integration into existing setups.

Recycled Yarn Expertise – Sustainability at the Core

Rieter is reinforcing its commitment to sustainability with technological expertise in

recycled yarn production.

· Collaborative projects with partners and fiber producers are showcased, demonstrating practical solutions for circular textile production.

· A new process enables significantly higher recycled content in ring yarns through the integration of **sustainable synthetic cellulosic fibers**.

This is a crucial step toward a circular and environmentally responsible textile industry.

Rieter Webshop – Smart Digital Sourcing

The newly launched **Rieter Webshop** is a state-of-the-art platform for sourcing spare parts, upgrades, and retrofit solutions.



· Offers a **one-stop digital experience** that simplifies procurement and reduces downtime.

· Enhances operational efficiency by enabling faster and more reliable access to genuine Rieter components.

Strategic Significance

Rieter's ITMA Asia 2025 showcase is not just about machines; it is about **transforming the spinning mill ecosystem**. By combining **automation, energy savings, sustainability, and digital platforms**, Rieter empowers mills to:

· Increase competitiveness in global markets.

· Reduce resource consumption and operational costs.

· Improve flexibility and resilience in a fast-changing textile landscape.

Conclusion

At ITMA Asia + CITME 2025, Rieter has reaffirmed its role as a **technology partner and innovation leader** for spinning mills worldwide. From **OMEGAlap E 40** to **eNASA spindles**, from **J 70 air-jet spinning** to **digital ESSENTIAL modules**, Rieter presents not just machines, but **pathways to the future of yarn manufacturing**.

With **Vision 2027 – the fully automated spinning mill** as its guiding star, Rieter inspires the textile industry to embrace transformation with confidence, sustainability, and excellence.