TERROT INTRODUCES T-FRAME PLATFORM TO REDEFINE STABILITY AND FLEXIBILITY IN LARGE-DIAMETER CIRCULAR KNITTING

New universal tubular machine frame addresses rising demands for precision, modularity and future-ready production in circular knitting.

Terrot Textilmaschinen GmbH has unvei-led the new T-Frame, a universal machine frame platform for large-diameter circular knitting machines. Designed to meet growing demands for flexibility, stability, and operational safety, the T-Frame provides a next-generation foundation for both current and future industrial knitting machines, combining German engineering expertise with a modular, future-ready design approach.

INDUSTRY RELEVANCE & MARKET CONTEXT

Circular knitting producers worldwide are facing growing pressure to increase output flexibility while maintaining consistent fabric quality under tighter cost and labor constraints. At the same time, demand for ergonomic operation, machine safety and sustainable production concepts are rising.
The T-Frame directly addresses these challenges by combining mechanical robustness with smart structural design, enabling manufacturers to respond faster to market changes without compromising process reliability.

TECHNOLOGICAL CORE

With the T-Frame, Terrot introduces a newly engineered tubular machine frame made from premium steel, developed to handle higher mechanical loads while improving precision and machine accessibility. After nearly three decades of proven large-diameter machine concepts, the company has completely redesigned the frame architecture.

At the core of the innovation is an intelligently welded frame construction that combines structural rigidity with modular adaptability. A single, standardized frame platform supports multiple extraction and take-down variants, reducing mechanical complexity while enabling fast configuration changes. Integrated cable routing, centralized display positioning and optimized component layouts replace traditional add-on solutions and improve both ergonomics and safety.

INDUSTRIAL BENEFITS & BUSINESS IMPACT

The T-Frame platform delivers measurable advantages in daily production environments:

- **Operational flexibility:** One universal frame supports multiple machine configurations, enabling rapid adaptation to changing fabric requirements.
- **High productivity:** Increased structural stability guarantees knitting precision at industrial speeds, particularly in large diameters ranging from 26 to 54 inches.
- **Improved efficiency:** Standardized components and optimized accessibility reduces setup times and simplifies maintenance routines.
- **Enhanced safety & reliability:** Intelligent cable management and reduced external attachments minimize failure points and support long-term process stability.
- **Future readiness:** The platform is designed to accommodate upcoming machine generations, protecting customer investment.

“With the T-Frame, we have focused on the foundation of machine performance,” said Michael Lau, Head of R&D at Terrot. “By rethinking the frame architecture, we deliver higher stability, easier handling, and a level of flexibility that meets current production needs while enabling future technological developments.”

Terrot T-Frame platform is available for large-diameter tubular circular knitting machines in multiple frame sizes and configurations. The development stands for transformation in textile manufacturing, combining the company’s long-standing engineering expertise with a clear commitment to future-oriented, user-friendly production processes. Visitors can experience the new T-Frame live at various upcoming trade shows, where Terrot will demonstrate the next level of circular knitting technology.

For more information, please scan the QR code.