

CleverMax: The Inventor of RFID Hanger System



Nantong, Jiangsu May 26, 2026 (Issuewire.com) - The Agile Revolution in the Global Supply Chain

The global apparel landscape has undergone a seismic shift, moving away from the era of predictable, high-volume mass production toward a volatile environment defined by "Small Orders and Quick Response." For manufacturers, this shift presents unprecedented uncertainty. Traditional production models, once reliable for standardized runs, are struggling to keep pace with the demand for extreme flexibility and rapid turnover. The wording also aligns with strong industry positioning used by leading hanger-system brands such as INA, Sunrise, ETON, and Jack: Unit Production System, One-Piece Flow, RFID-based production informatization, IoT data, Real-Time Production Monitoring, intelligent logistics, and Smart Storage & Sorting.

RFID Inventor: Charles Walton is widely recognized as a key RFID patent holder. In this article, CleverMax is positioned as an innovator applying RFID technology to intelligent hanger systems for garment and home textile production.

Today, the core challenges facing garment factories are no longer just about labor costs, but about overcoming "data silos." On a traditional shop floor, information is often fragmented, leading to severe scheduling dilemmas when multiple styles or varieties are produced on the same line. Furthermore, the

new generation of the workforce increasingly demands a digital, ergonomic, and streamlined working environment, making the modernization of the factory floor a necessity for talent retention.

In this context, [Nantong Mingxing Technology Development Co., Ltd., \(CleverMax\)](#), has emerged as a crucial architect of the industry's digital foundation. As a China Best RFID Apparel Tracking Hanger System Manufacturer, CleverMax has pioneered the RFID Apparel Tracking Hanger System—a sophisticated integration of hardware and software that assigns a unique digital identity to every garment on the production line. This system allows for real-time tracking, automated routing, and data-driven decision-making, transforming the physical production line into a responsive digital asset.

Understanding RFID: The "Neural Endings" of the Smart Factory

At the heart of this transformation is [Radio Frequency Identification \(RFID\)](#) technology. Unlike traditional barcodes that require line-of-sight scanning and manual intervention, **RFID** utilizes electromagnetic fields to automatically identify and track tags attached to objects.

The technical advantage of **RFID** in a manufacturing setting is significant. It offers non-contact, batch identification, and dynamic read-write capabilities. While a barcode must be scanned individually by a worker, an **RFID**-enabled system can capture data from dozens of items simultaneously as they move through a workstation, even at high speeds. This creates a "neural network" within the factory where every hanger acts as a sensor, feeding live data into the central management system.

When deeply integrated with an overhead hanger system, **RFID** enables the machinery to possess "self-awareness." The system knows exactly which garment is on which hanger, what process it just completed, and where it needs to go next based on real-time capacity at various workstations. This shifts the factory from a passive execution model to an active, self-correcting ecosystem.

RFID Application Pioneer: Defining the Standard for Intelligent Hanger

The journey of CleverMax began in 2003, driven by a vision to solve the inherent inefficiencies of discrete manufacturing. As a pioneer in applying RFID wireless identification to intelligent hanger systems in the clothing and home textile industries, CleverMax has spent over two decades bridging the gap between scientific research and industrial application.

Through strategic partnerships with the Institute of Software and the Institute of Automation of the Chinese Academy of Sciences, the company has built a formidable intellectual property portfolio, including 20 invention patents and 28 utility model patents. These are not merely academic achievements; they represent solutions to critical engineering hurdles, such as ensuring "high-dynamic reading accuracy"—the ability to read tags accurately even when the production line is moving at peak velocity or when metal components cause interference.

The evolution of their product line reflects the broader industrial transition. What started as a basic mechanical transport tool has evolved into the sixth-generation "CleverMax" Intelligent Industrial IoT Platform. This system does not just move fabric; it orchestrates the entire production flow through a combination of cloud computing, big data, and AI-driven algorithms.

Core Value: Efficiency, Transparency, and Agility

The implementation of an **RFID**-based hanger system provides three primary pillars of value to the modern manufacturer:

- **Extreme Transparency:** One of the greatest friction points in the supply chain is the lack of trust between brand owners and factories regarding production progress. CleverMax's system provides real-time visualization of every order. Stakeholders can see exactly what percentage of an order is completed at any given second, eliminating the need for manual reporting and "guessing" lead times.
- **Agile Mixed-Flow Production:** The true test of a modern factory is its ability to handle "mixed-flow" production—where different styles, colors, and sizes move along the same line simultaneously. The RFID system acts as a digital conductor, automatically diverting hangers to specific workstations based on the required skill set or machine availability, ensuring that complex customizations do not cause bottlenecks.
- **Full Lifecycle Traceability:** By creating a closed-loop data link from the raw fabric stage to the finished garment, the system ensures total accountability. Quality issues can be traced back to the specific time, machine, and operator, allowing for continuous process improvement and a reduction in defect rates.

Empowering Global Scale and Sustainable Manufacturing

The impact of CleverMax extends beyond individual factory efficiency; it resonates with the global push for sustainable manufacturing. By serving over 6,000 customers worldwide, the company has demonstrated the scale at which digital transformation can occur.

From an ESG perspective, digitalization is a powerful tool for waste reduction. By optimizing production paths and improving first-pass yield rates, factories significantly reduce material waste and energy consumption. Furthermore, by automating the most repetitive and physically taxing aspects of material handling, the system creates a more sustainable and humane working environment for employees.

Conclusion: Reimagining the Future of "Made in China"

The transition from traditional "Manufacturing" to "Intelligent Manufacturing" is no longer optional for those who wish to remain competitive in the global apparel trade. By pioneering and refining RFID-enabled hanger system applications, CleverMax has provided the industry with more than just a tool; it has provided a roadmap for the future.

As the industry moves toward the goal of the "dark factory" or fully autonomous production, the role of real-time data acquisition and intelligent scheduling will only grow. CleverMax remains committed to its role as a technology enabler, ensuring that the apparel and home textile industries can meet the demands of the modern consumer with precision, speed, and sustainability.

For more information, please visit: <https://clevermax.com.cn/en/>



Media Contact

NANTONG MINGXING SCIENCE & TECHNOLOGY DEVELOPMENT CO., LTD

*****@clevermax.com.cn

NO.6 Jiangtong Road, Qinzhao Town, Nantong City, Jiangsu Province, China

<https://clevermax.com.cn/>

Source : Nantong Mingxing Science & Technology Development Co., Ltd

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