

TSLG Diverse Pre-coating Locking Technology Enables Global Localized Services



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TSLG currently operates 9 factories and 2 offices. In addition to its facilities in Yangmei, Taichung, and Kaohsiung in Taiwan, the company has established factories in Kunshan, Dongguan, Wenzhou, and Chongqing in China. Following the official establishment of the Tỉnh Bắc Ninh factory in Vietnam in 2023 and the Chon Buri factory in Thailand (slated for mass production in 2025), TSLG's total factory area has reached 124,506 square meters.

Driven by the concerted efforts of over 2,000 employees, its 624 professional production lines are capable of processing approximately 87 billion fasteners annually. By strengthening its presence in Southeast Asia, TSLG has further solidified its standing among global pre-coated fastener brands. Its service reach extends to high-precision automation fields, including automotive, 3C electronics, bicycles, smart manufacturing, intelligent mobility, and even artificial intelligence (AI). To satisfy customer demands, TSLG actively implements advanced information management and fully automated quality monitoring systems, while continuously enhancing its pre-coating technology and engineering application integration capabilities.

TSLG, a professional expert in pre-coating locking for screws and advanced sealing, thread protection, anti-seize, insulation, and lubrication technologies, is deeply rooted in Taiwan and has a global reach. With operations spanning Taiwan, China, Vietnam, and Thailand, TSLG continuously delivers globally competitive pre-coating locking solutions to its clients. For years, it has served as the designated partner for pre-coating technology research, testing, and application for numerous internationally renowned brands, including Nylok, Precote, and Loctite.

Forward-looking Solutions to Expand the Deployment of AI Servers and Emerging Applications

In recent years, TSLG has actively expanded its high-end fastener application footprint. In response to customers' growing investments in industries such as AI servers and automotive components in Vietnam and Thailand, TSLG has successfully applied for and secured local IATF system certifications. By establishing robust process and engineering laboratory testing capabilities, TSLG has significantly enhanced its local service and rapid supply capabilities for pre-coated fasteners.

In the field of AI servers, which operate under extreme environments of high heat and high-frequency vibration, **TSLG's pre-applied adhesive screw-locking solutions significantly enhance the connection reliability of key components and heat dissipation modules**, thereby reducing the risk of poor contact and short circuits. Simultaneously, TSLG is extending its reach into the low-altitude economy and embodied intelligence. The company is actively advancing its aerospace system certifications, **providing premium NYLOK and precote locking and sealing solutions, as well as Nyshield and TSLG 15 insulation solutions tailored for emerging industries that utilize diverse lightweight materials, such as carbon fiber, aluminum, magnesium, and titanium.**

To meet the demands for lightweight and weather-resistant electronic products, TSLG **continuously refines its micro-fastener processing technology, now possessing the advanced capability to apply Nylok patches to titanium micro-screws down to M1.4.** In the new energy vehicle sector, TSLG **focuses on lightweighting, locking, sealing, and insulation, providing solutions such as pre-applied locking adhesives for aluminum screws, as well as Nylok Seal and Nyshield insulating protective coatings for steel screws.** This innovative vision and advanced technology have enabled TSLG to successfully transition from a traditional fastener pre-coating supplier into a high-value-added, forward-looking solution partner. ■

