

System Time : 2025/7/23

News | Steel News | Taiwan News

小 中 大



News search

Best Quality Wire Co., Ltd. General Manager Hsiang Wu Unveils "Ultra S.S. Anti-Corrosion Screw" — A Game-Changing Third-Generation Product in the Fastener Industry.

2025-07-21 07:00

Reporter Yang Yaqing reported

Founded 21 years ago by General Manager Mr. Hsiang Wu, Best Quality Wire Co., Ltd. began as a small operation in the wire industry. Through over a decade of relentless dedication and entrepreneurial spirit, Mr. Wu has successfully developed the Ultra S.S.® Anti-Corrosion Screw—a product that has earned multiple domestic and international patents, as well as laboratory certifications.



Color-Coated Ultra S.S.® Screw by Best Quality Wire Enables Versatile Use
Photographer/ Reporter Yang Yaqing

Mr. Wu noted that the Ultra S.S.® Anti-Corrosion Screw represents a significant technological leap in the evolution of screw manufacturing. From the first generation of carbon steel screws, to the 2nd generation, a combining carbon steel with stainless steel, this new third-generation product offers a fully integrated stainless steel design with exceptional rust and corrosion resistance. He emphasized that this innovation is not only a milestone for the company but also a revolutionary advancement for the entire fastener industry. Mr. Wu expressed his hope that the Ultra S.S.® Anti-Corrosion Screw will become a next-generation replacement for traditional composite screws—setting a new benchmark in the market and inspiring continued innovation within the field.



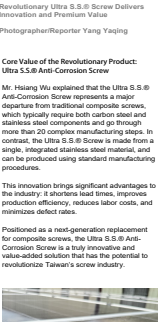
Ultra S.S.®: A Third-Gen Screw Innovation by GM Hsiang Wu of Best Quality Wire

Photographer/Reporter Yang Yaqing

Wu Hsiang's path to entrepreneurship mirrors the rise of many early pioneers in Taiwan's fastener industry. Born to oyster farmers along the coastal region of Tainan, Wu entered the workforce at the age of 15 after graduating from junior high school.

He began as an apprentice at a metalworking factory, gaining hands-on experience and a wide range of technical skills. At 17, he continued his studies while working part-time, enrolling in the Mechanical Engineering Department at the Affiliated Senior Industrial Vocational Continuing Education High School of National Cheng Kung University.

During this period, he acquired expertise in electric welding and hydraulic system design, laying a solid foundation in mechanical engineering. Wu later joined New Best Wire Industrial CO., Ltd. as a sales representative, marking a key transition into the industrial sector.



Best Quality Wire Co., Ltd. Began with Wire Production

Photographer/Reporter Yang Yaqing

The Founding of Best Quality Wire Co., Ltd.: Hsiang Wu's Journey into Entrepreneurship

In 2004, Mr. Hsiang Wu embarked on his entrepreneurial journey and established Best Quality Wire Co., Ltd., initially focusing on wire trading. With the core mission of delivering "Premium Service, Champion Products, and Guaranteed Quality," Mr. Wu set out to provide reliable solutions to customers. He later founded F.M.W.T. Co., Ltd., a company dedicated to developing ESG-friendly machinery aimed at energy conservation and emissions reduction. This subsidiary specializes in efficient oil-water separation and recycling systems for industrial clients.

As the business steadily grew, production facilities were established in Tainan City and in the Gangshan and Lujhu districts of Kaohsiung. To enhance system integration and operational efficiency, plans are underway to relocate all facilities to the Northern Kaohsiung Industrial Park.

Driven by the belief that continuous learning is essential for growth, Mr. Wu enrolled in the EMBA program at National Cheng Kung University a decade ago to strengthen his management expertise and expand the company's vision.

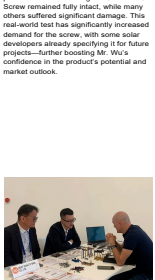
Mr. Wu's entrepreneurial spirit was sparked at the age of 15 when he began working as an apprentice, dreaming of one day becoming his own boss. He worked tirelessly to master technical skills and, after starting his own company, devoted more than a decade of effort and resources into product development. Learning from setbacks and relentlessly testing new ideas, Mr. Wu eventually succeeded in launching a groundbreaking product: the Ultra S.S.® Anti-Corrosion Screw. As he often notes, "The quality of a great screw begins with the quality of the wire."

On March 21, 2023, the Ultra S.S.® Anti-Corrosion Screw received official patent certification from Taiwan's Intellectual Property Office under the Ministry of Economic Affairs. The patent, titled "Forming Method for Stainless Steel Screws Capable of Direct Drilling and Fastening," marks a significant milestone in Mr. Wu's career and the continued growth of his business.

螺絲演進 Evolution



Revolutionizing Screws: A Three-Generation Journey
(From Best Quality Wire Co., Ltd.)



Revolutionary Ultra S.S.® Screw Delivers Innovation and Premium Value

Photographer/Reporter Yang Yaqing

Core Value of the Revolutionary Product: Ultra S.S.® Anti-Corrosion Screw

Mr. Hsiang Wu explained that the Ultra S.S.® Anti-Corrosion Screw represents a major departure from traditional composite screws, which typically require both carbon steel and stainless steel components and go through more than 20 complex manufacturing steps. In contrast, the Ultra S.S.® Screw is made from a single, integrated stainless steel material, and can be produced using standard manufacturing procedures.

This innovation brings significant advantages to the industry: it shortens lead times, improves production efficiency, reduces labor costs, and minimizes defect rates.

Positioned as a next-generation replacement for composite screws, the Ultra S.S.® Anti-Corrosion Screw is a truly innovative and value-added solution that has the potential to revolutionize Taiwan's screw industry.

Long-Lasting Ultra S.S.® Screws Secure Solar Panels with Reliability

Photographer/Reporter Yang Yaqing

The Evolution of Screws: A Third-Generation Breakthrough Driving Product Diversification in Taiwan's Fastener Industry

Mr. Hsiang Wu highlighted the evolution of screw manufacturing, noting that the first generation utilized carbon steel—commonly known as "black iron"—which, while strong, was highly prone to rust and corrosion. The second generation introduced composite screws combining carbon steel and stainless steel. Although these offered some rust resistance, they suffered from insufficient tensile strength, as stainless steel could not undergo heat treatment.

Now, the Ultra S.S.® Anti-Corrosion Screw represents a third-generation innovation. By integrating vacuum heat treatment technology with high-performance stainless steel, this product overcomes the limitations of its predecessors. It offers exceptional rust and corrosion resistance, as well as high tensile strength. According to SGS laboratory testing, the screw has an estimated rust-free lifespan of up to 30 years, making it ideal for demanding environments.

The Ultra S.S.® Screw is especially suited for solar installations near coastal areas, rooftops, concrete foundations, agricultural greenhouses, wetlands, and livestock facilities. It also meets the high standards required by the maritime and shipbuilding industries, demonstrating excellent performance in salt spray, high humidity, and sandy or abrasive conditions, making it suitable for sea walls, floats, and boat hulls.

Furthermore, with a strength rating of Grade 12.9, the screw is robust enough for use in emerging applications such as drones, aerospace, and the defense industry, offering a high-value solution across multiple advanced sectors.

China Steel Galvanic Corrosion Test Certification
(From Best Quality Wire Co., Ltd.)

Backed by U.S. and German Patents and Industry-Leading Lab Certifications

To build industry trust and credibility, Mr. Hsiang Wu not only secured a product patent in Taiwan but also obtained patents in the United States and Germany. The Ultra S.S.® Anti-Corrosion Screw has passed SGS salt spray and acid rain tests, proving corrosion resistance of over 30 years, withstanding 3,000 hours of salt spray exposure and enduring 30 acid rain cycles without visible pitting or oxidation on the surface.

Additional certifications include:

- China Steel's galvanic corrosion test
- IST's anti-loosening test
- ITRI's carbon footprint verification

These rigorous certifications confirm that the Ultra S.S.® Screw offers more than double the strength of traditional 300 series stainless steel screws, with outstanding compressive strength, structural integrity, and a high safety factor.

Mr. Wu, whose background is in wire manufacturing, deeply understands that material quality is the foundation of screw performance. Conventional carbon steel screws, when exposed to outdoor elements for 5–6 years, often suffer from rust and structural failure. 300 Series stainless steel, though rust-resistant, lacks sufficient hardness for demanding applications. Before the development of the Ultra S.S.® Anti-Corrosion Screw in Taiwan, many manufacturers had to import high-performance alternatives from Japan or Europe—often at steep prices.

Having identified this critical market gap, Mr. Wu responded with a revolutionary product that not only offers superior performance at a fraction of the cost but also solves long-standing issues for fastener manufacturers. In addition, he has formed alliances with young generation of producers in Taiwan's fastener industry, fostering a spirit of collaboration and shared innovation. Currently, Mr. Wu is working with partners across mold, screw, and nut manufacturing sectors to deliver customized solutions tailored to client needs. Notably, during Typhoon Danas in July this year, which severely impacted Taiwan's Chiayi and Tainan regions, solar power installations using the Ultra S.S.® Screw remained fully intact, while many others suffered significant damage. This real-world test has significantly increased demand for the screw, with some solar developers already specifying it for future projects—further boosting Mr. Wu's confidence in the product's potential and market outlook.

GM Hsiang Wu (left) Showcasing New Screw Products at Key Global Trade Shows
(Provided by Hsiang Wu)

A Taiwanese Innovation Goes Global: Paving the Way for a New Era in the

Fastener Industry

To boost awareness of this revolutionary product, Mr. Hsiang Wu first unveiled the Ultra S.S.® Anti-Corrosion Screw at the 2023 International Taiwan Fastener Show, where it received positive attention.

Earlier this year, in March 2025, the product was also showcased at the Fastener Fair Stuttgart in Germany, attracting strong interest from international buyers.

To expand the product's versatility, Mr. Wu introduced custom coating options, offering a variety of finishes and colors to suit different applications. The screw is also fully recyclable, with a 20–30% reduction in carbon emissions compared to the production of traditional composite screws. This makes the Ultra S.S.® Screw not only a high-performance solution but also an eco-friendly component designed to support global ESG compliance. A low-carbon footprint report can also be provided to customers seeking documentation for sustainability initiatives. Born from Taiwan's manufacturing ingenuity, the Ultra S.S.® Anti-Corrosion Screw is more than just a product—it is a symbol of the industry's transition from low-cost competition to high-tech, high-value, and innovation-driven development.

Its emergence has been widely praised across the fastener sector as a milestone in sustainable engineering and industrial advancement.



Revolutionary Third-Gen Screw Leads Taiwan's Fastener Industry Toward High-Value Growth
(Courtesy of Best Quality Wire Co., Ltd.)

Copyright © Youlimei Technology Industry Co.,

Ltd. All Rights Reserved. All rights reserved

Privacy Policy . Intellectual property declaration

Customer service hotline: 0800-800-515