

Integrating AIoT & Low Carbon Emission Taiwan Shan Yin Takes Carbon Reduction Seriously



With the core value of "Innovation, Integrity and Sharing", Taiwan Shan Yin International Co., Ltd. having operations in Taiwan and Malaysia is a professional fastener manufacturer mainly engaged in order production, with 90% of its products being exported to Europe and the U.S. It not only developed SKT@ coating screws, but also expanded the business reach to dental implants in 2008. Its strong creativity has enabled it to obtain int'l quality management system and car manufacturers' certificates such as CE. Its record of 100+ patents is even one of the best in Taiwan fastener industry. With the imminent implementation of CBAM, strengthening carbon reduction at the process end has become a priority for Taiwan Shan Yin's future development.



Having Completed the GHG Inventory Report & Introducing National ESG Carbon Reduction Resources and Platforms

"We're satisfied with the quality of your service, delivery, and price, but if you can't keep up with CBAM in the future, we may still leave you." These words of a customer during the epidemic were a wake-up call for Taiwan Shan Yin President Jack Su and his team to realize that carbon reduction is no longer a slogan, but an alert that an internal carbon inventory should be initiated immediately. Accordingly, Taiwan Shan Yin took the lead in recognizing the importance of carbon inventory in Taiwan in 2021 and **has completed its 1st ISO 14064-1 GHG Inventory Report in 2023, officially declaring that it'll do its best to work with associate factories and global customers toward the goal of reducing carbon emissions and environmental sustainability.**

For utterly fulfilling carbon reduction and declaring that at least 10% of its electricity will be generated from green energy by 2025, Taiwan Shan Yin has created a CSO and each department with the management's support has initiated a carbon inventory to actively collect data for integration into the existing ERP system, and the company has also initiated education/training programs to enhance the knowledge of CBAM among all employees. Besides the full internal support, **it introduced ITRI's "Sustainable Manufacturing Kit - Carbon Footprint Digital Platform"** in early 2023 in order to identify the hotspots of carbon emissions in production lines and set up carbon reduction paths. In May of the same year, **it started the carbon footprint calculation under the guidance of the Grenn Energy & Environment Research Institute of ITRI. It is currently implementing the "Fastener Forming Monitoring System Development Project" under the guidance of MIRDC. In Q1 2024, it'll apply for IDA's "Fastener Process Optimization and Low Carbon Manufacturing Technology Platform Development Project"** in the hope of integrating resources of multiple platforms, utilizing manpower more efficiently, and moving towards the establishment of low-carbon intelligent production lines. In addition to fasteners, its dental implant business has also put efforts in carbon reduction, e.g., under the guidance of IDA's "Dental Implant System Transformation and Intelligent Development Program," it has developed PDL green surface treatment, which can replace traditional shot peening or acid etching.

"Each of our products has an ID no., and by entering the code one can see the progress of manufacturing and carbon emission data of the product. Although we're not a listed company, we're serious about verifying our carbon emissions data, and we hope to replicate such experience in our Taiwan HQ to our Malay factory in due course," said President Su.

Not Only ODM, But Also OBM

As Taiwan Shan Yin enters its 40th anniversary, many leading European manufacturers are concerned about Taiwan Shan Yin's efforts to reduce carbon emissions and are seriously considering the possibility of expanding cooperation. In addition to securing 2nd or 3rd generation support from existing customers, Taiwan Shan Yin is also repositioning its focus on the mid- to high-end market. On the one hand, it provides OEM customers with functional analysis and suggestions, and on the other hand, its R&D department has been introducing patented new products with fewer processing steps, more carbon reduction processes, and higher CP ratios for ODM orders to solve customers' challenges and new fastening problems. In the future, it also hopes to win more OBM orders in the high-end market and help them increase the added value of their brands.

"We once worked on a DIY product project for a customer for 5 years and never had any delays in delivery, and solved his urgent delivery request within 1 month. I strive to pass on this spirit of service and experience to each corporate member. In this low carbon era when many areas require new thinking and practices, we'll continue to enhance the productivity, competitiveness, and adaptability of our team, and provide customers with 100% assured service," added President Su. ■

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