

Homeyu Fasteners Responds to Industry's Environmental Requirements with the Introduction of Low Carbon Technologies

◀ Booth No. 127 ◌

HOMEYU FASTENERS CO., LTD.
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Homeyu Fasteners Co., Ltd. specializes in construction and automotive fasteners. Over the years it has continued to demonstrate an impressive level of precision and versatility in its fasteners through the legacy of traditional process technologies such as cold forging within one and multi-stroke and the introduction of machining, surface treatment, and many other secondary processing procedures. It once dedicated itself to various collaborations with top academic organizations such as ITRI, NTU, NTHU, and NCTU and also played a role in supplying parts to the semiconductor industry. In recent years, in order to respond to the global industry's concern about carbon emissions, environmental protection and climate change, it has begun to focus on the R&D of innovative technologies that are low carbon and environmentally-friendly, with a particular focus on the optimization of the manufacturing process for surface treatment of products, which has resulted in superior performance compared to previous products.

Integration of 3 Major Surface Treatments to Realize Low-carbon Product Requirements

At the upcoming Fastener Fair USA, Homeyu is ready to demonstrate to the international market its products in addressing the issues of global carbon emissions, environmental protection and climate change. First of all, in terms of carbon emissions, Homeyu has introduced water-based plating in its manufacturing process, which not only reduces the process steps of traditional organic-based plating, but also significantly reduces the carbon emissions of the baking process; in terms of environmental protection, Homeyu has developed highly-stable Cr3+ yellow zinc electroplating, which not only avoids the use of highly environmentally polluting Cr6+ yellow zinc electroplating, but also eliminates the potential problem of Cr3+ yellow zinc electroplating being prone to peeling off; in response to climate change, it has also introduced the high performance plating that can form a light and dense passivated layer, which on one hand enhances the corrosion resistance of fasteners and on the other hand can adapt to more demanding applications. By integrating these technologies into its products, Homeyu expects to receive more inquiries from buyers in the U.S. market, where green concepts are highly emphasized.

"We once worked with customers from New Zealand, Australia and Brazil to develop highly efficient coating technologies that could address the lack of corrosion resistance in extreme environments, and we provided them with test reports and analysis recommendations, as well as quality assurance through our professional QC staff and equipment. In addition, we also provide customers with corresponding carbon emission data through monitoring the power consumption and working hours of each machine, and develop new technologies to address the carbon emission problems arising from oil consumption and oil/gas emissions of machines, in the hope that they can be introduced into the future production process and further reduce carbon emissions," said Homeyu.

"Forging Before Machining" Dramatically Reduces the Cost of Machining

In addition to surface treatments, Homeyu's "Forging Before Machining" approach to customized fasteners creates significant process and cost advantages. "We serve our customers with a policy of 'solving problems before the production schedule' in each step of process and dimensional quality control. The concept of "Forging Before Machining" not only compensates for the technical limitations of 'all forging', but also lowers the high cost of "all machining". With our past experience in serving the semiconductor industry, as well as our technological foundation and practical experience in the traditional industry, we are able to meet the needs of our customers in various industries," said Homeyu.

Despite the lackluster market performance in 2023 and the first quarter of 2024, Homeyu continues to create a niche by steadily developing technologies that address market needs. "We hope to bring these new technologies to end customers to not only create growth for us, but also continue to contribute to the industry," said Homeyu.

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