

WKPT Update

Experts Talk On Supply Chain Resilience Upgradation In Regional Market

Recently the Big Four accounting firms shared their results of the survey report, which indicated the supply chain risk management is the critical concern for the executives in the US manufacturing industry. A while ago, the Industrial Technology Research Institute also hosted a seminar on supply chain upgrading, inviting expertise from different industry to share with their experience.



In the Expert Forum on supply chain resilience upgradation in regional market hosted by ITRI, WKPT was invited to share our own experience on digital transformation and supply chain resilience.

In the seminar, we shared the thinking of digital transformation and the supply chain resilience. Promoting digital transformation in a corporate is somehow like playing a jigsaw puzzle. For example, since 2019, we have imported the digital tools, starting from the Internet of machines and expanding to an automotive components smart production line. Then the statistical process control (SPC), intelligent logistics and dashboard will be gradually added. Finally we will head toward the real-time order information and piecing together a realizable future. On the other hand, we improve our company's resilience through digital tools assistance and stay close connected with supply chain partners. By doing do, we could enhance supply chain resilience and the ability to respond to unknown risks.

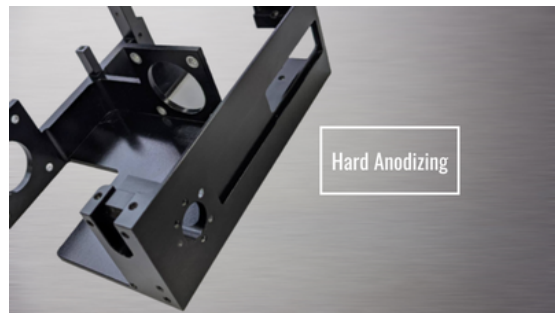
Information Express

Critical Factor On Aluminum Alloy Rust-Resistance

Aluminum alloy is a highly active metal. An oxide film will occur as soon as the aluminum alloy contacts the air, and this can isolate the possibility of bottom layer being corroded in the environment. However, the naturally formed oxide film still will be corroded after long-term exposure, so aluminum alloy is usually anodized for surface protection.

For example, we made 6061-T6 aluminum alloy casing for medical testing equipment and applied hard anodizing treatment. Hard anodizing treatment has a thicker film than ordinary anodizing treatment, which will result in a better surface hardness and corrosion resistance.

Through setting up the temperature, voltage and current density, a protective coating with thickness of 25µm and hardness of HV500 will be formed on the surface, which meets the regulation of ISO10074. Among the numerous applications of aluminum alloys, lightweight, high-strength, and acid-alkali resistant testing equipment required by the medical field is one of the successful projects we have supported our customers.



The critical factor to rust-proof and scratch-resistant of aluminum alloy is hard anodizing.

Industry News

Four Strategies for Supply Chain Resilience

"What emerges are four components important to a successful supplier management strategy: strengthening existing relationships, engaging multiple suppliers, deploying digital tools for increased visibility, and combining efficiency with resilience." [Meeting the challenge of supply chain disruption](#)

According to Deloitte's "Meeting the challenge of supply chain disruption" survey of 200 US based manufacturers, four main strategies for responding to supply chain crises were summarized, namely strengthening existing relationship, engaging multiple suppliers, deploying digital tools for increased visibility, and returning to just-in-case approaches. As part of the supply chain, our strategies applied as follows:

Strengthening existing relationships - a stable supply chain relationship is the key to maintain smooth supply. Our long-term relationship with global renowned brands proves our stable quality and grown together with our customers.

Engaging multiple suppliers - We keep investing in equipment and talents in the aluminum alloy machining. In addition to our new factory for aluminum alloy machining, we have enhanced CATIA training to R&D and Production Technology staff in aluminum alloy machining to sharpen our technical capability and create more possibility of aluminum machining application.

Increased visibility - Since we've imported the smart manufacturing in 2019, we have gradually increased visibility from company inside to customer/supplier side. Thus to make effective decisions, reduce waste and improve operational efficiency.

Just-in-case approach - Due to supply disruption caused by uncertainty, we also review our distribution of supply system thoroughly and establish a new supply balance to keep resilience, meeting the new normal in 2023.



Many companies are pursuing four key risk mitigation strategies to address these operational concerns. / Image: Deloitte analysis of 2022 manufacturing supply chain study data