

## WKPT Update

### Lean Management Presentation



WKPT has won the first place in the Lean Plan of "1st Precision Machining Competition and Lean Promotion Plan" hosted by MOEA (Ministry of Economic Affairs)

Lean Management, also known as Lean Manufacturing, advocates reducing useless waste during production, in order to continuously lower operating costs while creating value for customers.

WKPT implements the quality policy with "continuous improvement", proposes new approaches by exploring root causes based on the "3 Gen Principle", that is, site, stocks, and situation. For example, under the objective of improving production efficiency, we applied the "leveling" thinking to machining time, and adjusted sequence of machining operations to achieve a balance.

In addition, we also carried out the "one stream production" concept to load / unload operations, to reduce waste in handling. Through the aforementioned improvement, we are delighted to have won the first place in the Lean Plan of "1st Precision Machining Competition and Lean Promotion Plan" hosted by MOEA (Ministry of Economic Affairs) last month. We will keep making improvement in all aspects of operations to enhance our overall competitiveness.

## Information Express

### Robotic Arm Lightens Labor Force



Automated production lines lighten on-site labor force

Since the global industry has changed in recent years, both aging population and declining birthrate impacted on workforce structure, which makes labor shortage becomes common issue. In response to the New Normal, western countries have launched Industry 4.0, and AMP (Advanced Manufacturing Partnership), etc. to upgrade manufacturing. As part of the metalworking industry, we must do something different to improve this situation.

For example, our automatic production line for automotive components was built two years ago, the original production process was manual handling and required 4 labors daily, from loading casting, machining to dimensional check. After implemented robotic arms and automatic measurement equipment, it only needs 2 labors and the daily production efficiency has increased by 26%. By using robotic arms, it improved the labor force demand and production efficiency, which is one of our achievements in digital transformation.

## Industry News

### The impact of the Russia-Ukraine conflict on the industry



Prices of raw metal materials soar due to the Russia-Ukraine war

"Nickel is one of several commodities, including oil and other metals such as aluminum, that have rocketed in price since Russia invaded Ukraine. The metal is used in steel-making and increasingly in electric vehicle batteries." Nickel Prices Sent on Wild Ride by Russia-Ukraine War

Since the Russia-Ukraine war started, it has triggered economic sanctions against Russia and Russian goods are banned. Russia is abundant in various raw material resources. After the outbreak of war, the supply of raw materials has been impacted, in particular the price of nickel, aluminum, and palladium. The price has reached unprecedented high which will cause great impact on automotive, semiconductor, national defense, and aerospace industries.

WKPT is highly related to metal supply as in precision machining industry. Facing the unstable situation currently, we actively coordinate and stabilize supply with customers and suppliers, and optimize manufacturing process as follows.

1. Cooperating with suppliers to optimize material forming and reduce machining allowance to lower production costs. We can provide a comprehensive one-stop solution from product design to logistics.
2. Applying Statistical Process Control (SPC) in-depth to stabilize process trend and control the quality of products, in order to reduce both output of defective parts and waste of resources.

Under the unstable supply of raw materials, we started with forming and process control to decrease resource consumption and minimize the impact on customers.