

WKPT Update

The Road to Digital Transformation in Precision Machining Industry



WKPT shared its own experience on the digital transformation forum

Digital Transformation is the use of modern digital technologies, including all types of cloud platforms, to create or adapt business processes and customer experiences in response to changing business environments and market.

WKPT attaches great importance to customer satisfaction. In order to improve customer experience, we have imported systems such as ERP, MES, APS, and PLM to integrate our internal information and enhance efficiency of cross-functional collaboration.

Combining external resources from government, academic and research institutes, we've established a smart automated production line for automobile components, and use real-time inspection to win business for high-value commercial vehicle components. With hardware and software upgrade, we've prompted information sharing between suppliers and customers to optimize the existing business model. In the future, we will upgrade to realize real-time order management, to continuously improve customer experience.

Information Express

The Secret of Corrosion Resistance of Wind Power Components



The corrosion resistance requirements for offshore wind turbines are very high

The stable monsoon and high wind speed caused by terrain effect in the Taiwan Strait gives Taiwan a unique offshore wind power condition. Due to the high temperature, high humidity, and high salinity environment in the coastal -areas of Taiwan, the corrosion resistance requirements for offshore wind turbines are very high. The surface of wind turbines must reach ISO 12944 C5M level, and the interior must achieve C3 level or above, in order to meet the service life requirements for wind turbines. WKPT has rich experiences in the production of wind turbine brake cylinder block.

In addition to the metal forming and precision machining processes, we have also developed a C4 level surface painting process. The surface treatment processes for brake cylinder block with ISO 12944 C4H corrosion level includes pre-treatment cleaning, shielding, multi-pass surface coating, and finally, putting in temperature controlled oven. Our products can meet the offshore corrosion requirements, thus we can provide wind energy brake cylinder block localized solutions for customer.

Industry News

Lockdown and Lift Restriction on Two Sides of the World



Deserted street under lockdown

"The lockdown has huge ramifications for the global economy, adding to strong inflationary pressures by choking off the supply of goods." (Will China's zero-Covid policy bring the world's factory grinding to a halt?)

Into the third year of pandemic, we have seen that EU and US have lifted restrictions, and business travel has gradually recovered. However, Shanghai lockdown has brought many challenges to us before returning to routine life. In particular, the local automobile, electronics, and semiconductor industries were affected by the lockdown. The congestion of shipments and logistics started. Global supply chains are facing turbulence once again as two sides of world are restriction-lifted and lockdown. Under changing situation, what remains constant is that we timely adjust our operations to maximize benefits in response to the pandemic and the unstable environment.

For example, the digital transformation introduced before the pandemic has created new values in precision machining field through smart production lines, online measurement and real-time accuracy correction. Facing the supply chain instability caused by the pandemic and city lockdown, we also acted with lean thinking. In addition to timely communication and coordination with customers and suppliers, we also improved operational efficiency through automatic dispatching and scheduling. In the changing environment, we continue providing customer-satisfied precision machining services with our digitally transformed business model.