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Although the impact of the U.S.-China trade war has not yet seen the end, Tongtai still maintained full activity in the third quarter to increase exposure and actively while looking forward to new orders.

Top stories

NAR Labs united with Tongtai and Macro Technology to build up a Taiwan sensor cluster

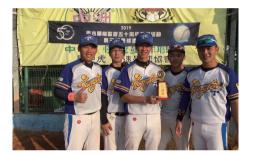
National Applied Research Labs united with Tongtai and Macro Technology to build up a service platform for sensors of smart machinery and air quality. The service platform provides a sensor component test and hopes to promote independent research and development of domestic sensors.



Tongtai won the Tongtai Cup Softball Invitational championship

In order to promote the sporting spirit, Tongtai held the third Tongtai Cup Softball Invitational on September 21. This year's game coincides with the 50th anniversary of Tongtai. There were 7 teams participating in the competition, namely OMRON, Contrel Technology, AIDC, Innolux, JP Team, RL Softball Team and Tongtai Team. The weather was sunny and every player was full of fighting spirit. After the game was kicked off by the assistant to the chairman, Lulu Yen, and the general manager of Contrel Technology, a series of exciting events were launched. In the end, Tongtai won the championship, Innolux was the runner-up, AIDC and the R/L team tied for the third place.





Exhibitions

VTX series grabbed the market at DMTX 2019

Tongtai participated in the DMTX 2019 on August 8-11. This exhibition is one of the professional machine tool exhibitions in South Asia and Southeast Asia. Tongtai exhibited "Tapping Center, EZ-5".

The EZ series and its brother VTX series are suitable for processing aluminum parts of steam locomotives. It has been sold in the Indian market. For the entire four days, our booth was full of people.



Tongtai Sand Binder Jetting Machine created blue ocean

Taiwan International 3D Printing Exhibition opened on August 21-24 at the Taipei Nangang Exhibition Hall. Tongtai exhibited a comprehensive solution for additive manufacturing, and introduced industrial applications such as motorcycle and automotive components, etc. In particular, Sand Binder Jetting Machine, AMS series, has been recognized by the foundries of turbine casings and brake discs. Tongtai provided test sand molds to potential customers to experience and understand the degree of heat and permeability of the sand mold. The market outlook was available.

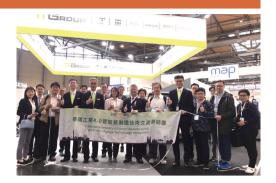






TTGroup showed total solutions at **EMO Hannover 2019**

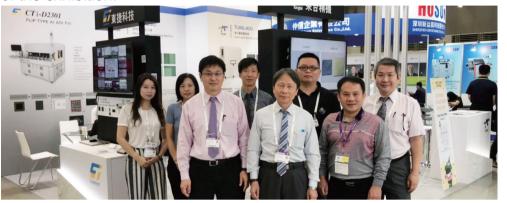
TTGroup exhibited at two booths at EMO Hannover 2019 to completely present best-selling models of TTGroup, as well as global orders and service energy for turnkey solutions. In recent years, TTGroup has continued to cultivate industries such as electric vehicles, motorcycle, automotive and aerospace. In response to a small number of diverse product manufacturing trends and highly flexible production requirements, TTGroup offers total solutions to become the best partner for customers' smart production development.





TLCU-660 became the focus of **SEMICON Taiwan 2019**

SEMICON Taiwan 2019, the world's second largest and most influential high-tech industry event, debuted at Taipei Nangang Exhibition Hall from September 18th to 20th. Tongtai and Contrel jointly promoted high-end models such as semiconductor, 5G circuit board processing and package inspection. The CO2 /UV Combo Laser Processing Machine, TL-CU-660 designed by Tongtai echoed the 5G trend and became the focus of the exhibition.



Events

The second factory conducts annual firefighting training demonstration

Tongtai Second Factory was selected as the demonstration plant for the annual fire fighting training of Kaohsiung Science Park. This training combined the Tongtai self-defense firefighting team, the fire department, the police squad, the emergency response center, Taipower and waterworks special units to conduct integrated intelligent disaster relief drills. Starting with the short circuit of a machine, manager Pingchen Lin directed self-defense firefighting team to issue a fire alarm, and to start fire prevention, protection, evacuation guidance and rescue. The entire plant personnel and simulated injured

were evacuated to the meeting place within 2 minutes. The Science Park bureau expected the demonstration to increase the effectiveness of integrated disaster relief.





Health fitness class results publication

"Health fitness class" organized by our Safety Health Office achieved remarkable results. The first-ranked colleagues reduced weight by 22.9 kg and reduced fat by 15.2%. The average weight loss results were also significantly better than last year, with a total weight loss of 225.8 kg, exceeding the 5% target. This year's weight loss program was based on the "Healthy Eating Lecture Course" and 3-month weight loss activity. Let colleagues acquire the right knowledge and develop healthy habits to achieve long-term weight management.



!! New machine !! CO₂/UV Laser Machine, TLCU-660



TLCU-660 laser machine is a dual wavelength laser system useful in various laser processing. The design concept is for 5G PCB large panels & special materials. The laser processing can directly drill the copper foil without chemical processing to meet requirements of green manufacturing. HMI & TLM allows customers to monitor machine status and processing analysis for smart manufacturing factories.

Nursing column

Preventing the flu

Fall is the season when the flu begins to spread. We all need to develop good habits to avoid infection, such as: keep hands clean, frequent hand washing, wear masks when you have symptoms; use face paper or handkerchief to cover mouth and nose when sneezing, or use sleeves instead; when talking with others, keep 1 meter distance as much as possible.

The virus is transmitted to other people by coughing or sneezing droplets of the infected person. The flu virus can also survive on the surface of an object for a short time. So, you can be infected by touching your mouth, nose or eyes! Symptoms of the flu include

headache, runny nose, sore throat, and cough, accompanied by signs of severe fatigue, muscle aches, and high fever. It is highly contagious, and patients in high risk groups may develop serious complications.

This year, the government will provide 6 million free doses of flu vaccine. People who meet the public vaccination conditions will be vaccinated as soon as possible.

PERVENT THE SPREAD OF THE FLU





