

Delta G60 Corridor league cities give wings to C919 jet industrial chain

Liang Feng and Yang Yang

FIRMS along the Yangtze River Delta G60 High-tech Corridor league cities are contributing to the huge C919 jet industrial chain that comprises production of more than 2.5 million airplane parts and components.

China's homegrown C919 narrow-body jet is nearing certification after its planes completed all of the test flight tasks, the state-owned manufacturer Commercial Aircraft Corp of China said recently.

"The trial flight tasks were completed successfully. The related C919 jet industrial chain in the Yangtze River Delta G60 league cities will soon develop rapidly. The cities will seize the opportunity to embrace this new commercial aviation industry worth thousands of billions of yuan," said

an official with the Yangtze River Delta G60 High-tech Corridor league cities office.

The league cities include Songjiang District of Shanghai, Jiaxing, Hangzhou, Jinhua and Huzhou cities of Zhejiang Province, Suzhou City of Jiangsu Province, and Xuancheng, Wuhu and Hefei cities of Anhui Province.

"We are excited about the success of the test flight. A high temperature-resistant vacuum sealing tape of our company, as a C919 jet component, is in its last phase of tech trial. It will soon be mass produced," said Wang Xiaohong, deputy manager of Kejian Polymer Materials (Shanghai) Co.

Kejian Polymer, established in Songjiang 17 years ago, has turned into a leading global butyl rubber producer. It focuses on research and

manufacturing of rubber damping plate, butyl adhesive and tape that have been widely used in the transportation, new energy, architecture, telecommunication and aerospace industries.

Aramid honeycomb is an essential non-metallic material used to help an airplane reduce weight.

Advanced Composite Technology Materials Co, which is based in the Songjiang Economic and Technological Development Zone, focuses on providing "slim aviation products" made from aramid honeycomb, including luggage racks and ceilings.

The company spent about two years from signing contracts with Civil Aviation Administration of China in 2013 to winning certification from it.

In addition to these time-honored

Songjiang high-tech firms, some startup companies in the suburban district are also participating in the development of C919 industrial chain. Shanghai Pengxi Aviation Technology Co, founded in August 2021, is able to offer landing gear maintenance for the majority aircraft types of COMAC, Boeing and Airbus.

Some simulation facilities, including LAB-SIMU-RT, VPC signal adapter and power management box, developed by Shanghai Simin Mechanical and Electrical Technology Co, have been applied in some C919 research labs to assist in their test and certification works.

So far, about 1,000 companies in the nine league cities have been listed in the C919 supplier database as a sustained strategic cooperation between the league and COMAC.

Boost to analysis technology industry

Liang Feng and Yang Yang

SONGJIANG District has become a highland for the analysis technology industry, home to many analytical-instrument companies.

The 60-plus analysis technology companies fall into categories such as high-end analytical instruments, third-party inspection and testing, testing technology and bioanalysis, reagent production, instrument parts and new materials.

In 2021, medium and large instrument industry companies in Songjiang generated 7.1 billion yuan (US\$1 billion) in output, accounting for 15.4 percent of the city's total.

Shanghai Institute of Analytical Technology was established in April 2018 as an accelerator for the industry cluster.

Its shared chemical analysis lab, bioanalysis lab and cell-culture room with more than 60 high-end scientific machines — worth 20 million yuan — have served two-thirds of incubated companies in the institute.



'Spirit of Love' to open Yunjian season

The musical "Spirit of Love" will open Yunjian Theater's new season on September 23 and 24. This season the theater will host 38 performances of plays, operas, symphonies, dance shows and musicals. In the coming years, the theater, which was built on the former Songjiang Theater site, will host 150 performances annually. — Gao Yu

Prismlab China on prestigious list

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SONGJIANG-BASED Prismlab China is among the first group of businesses selected by China's Ministry of Industry and Information Technology for the "additive manufacturing good application scenario" list.

Additive manufacturing, or 3D printing, turns 3D models into objects by building layers. More than 500 3D-printing machines manufactured by Prismlab China are used across the country to create about 150,000 sets of orthodontic tooth models daily.

"Orthodontic tooth models are highly tailored goods as the conditions of people's teeth differ. A tooth model producer should be capable of mass production to control costs, and Prismlab is able to meet their demands," said Hou Feng, general manager of Prismlab China.

Self-driving street sweepers make life easier

Liang Feng and Yang Yang

SELF-DRIVING street sweepers produced by Songjiang-based Autowise.ai have been used in several Chinese cities this summer, significantly reducing workloads for sanitation workers during the scorching summer heat.

Capable of operating for 16 hours nonstop while

traveling 5 kilometers per hour, the machines are equivalent to 20 sanitation workers working together.

In Anzhen Town in the city of Wuxi in neighboring Jiangsu Province, more than 10 Autowise.ai street sweepers have replaced sanitation workers.

In addition to surface streets, the sweepers can also be used in special scenarios

like inside tunnels.

The nighttime heat and humidity inside Yangtze River Tunnel in Nanjing, Jiangsu Province, was almost unbearable for sanitation workers. Using the sweepers in these conditions has reduced the workload of sanitation workers by half.

The sweepers have also been used in northern Hebei Province at Tangshan Harbor

and the Xinzheng airport in the city of Zhengzhou, Henan Province, as well as the Middle-Ring Elevated Road in Shanghai.

Autowise.ai developed the world's first self-driving street sweeper in 2018. About 200 of the company's self-driving vehicles have logged 1.5 million hours of operations in more than 20 cities around the world.