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Chen Zugang, a technician from a Guiyang-based aeronautical fastener manufacturer, never expected that the rivets he processed could replace imports being used on domestically developed aircraft.

But last December, Guizhou Hangrui Science and Technology, where Chen works delivered the first batch of 1,600 titanium blind rivets to an aviation industry customer.

"I was very excited and cheered with all my colleagues at the workshop when we were told the rivets had at last met the customer's requirements," Chen said.

Before that, Chen alone processed a total of nearly 80,000 rivets, but none of them was up to the aviation industry's strict standards.

"After tens of thousands of experiments, our efforts and hard work over the past four years finally paid off," he added.

Their persistence helped China significantly reduce its dependence on imported fasteners for military planes.

Cheng Fei, general manager of Hangrui Science and Technology, said the company plans to produce 3 million titanium blind rivets by the end of this year, and its production capacity is expected to reach 6 million units per year by 2021, generating an annual output value of about 450 million yuan (\$67.20 million).

The company's triumph can be attributed in part to the efforts of the local government of Guiyang, capital city of Southwest China's Guizhou province, to promote medium and high-end manufacturing.

Liyuan Hydraulic, a subsidiary of Aviation Industry Corporation of China focusing on the research and production of hydraulic pumps and motors, is another company in Guiyang that has benefited from the government's efforts.

Due to the adoption of intelligent manufacturing, the company currently carries out most of the production processes by simply monitoring the central control system rather than utilizing manpower, which has boosted productivity and improved the quality of its products.

"We achieved an annual sales revenue of 700 million yuan in 2018, and it is my hope that the number could reach 1 billion yuan one day in the future," said Zhang Zheng, general manager of the Liyuan Hydraulic.

Guiyang, due to its ecological and technological advantages, has developed strong competitiveness in



Guiyang pins hopes on manufacturing for revitalizing real economy



Clockwise from top: Workers operate an automatic production line at Geely Auto's plant in Guiyang. SHI ZHAOCHANG / FOR CHINA DAILY Solar shingles are produced in a new-energy company in Guiyang. PROVIDED TO CHINA DAILY Tires produced by Guizhou Tyre Co can be widely used on special vehicles. PROVIDED TO CHINA DAILY A worker at Hangrui Science and Technology carefully examines the components to be used in production. LI HANYI / FOR CHINA DAILY

fields of big data, civil-military integration, equipment manufacturing, pharmaceuticals, food, chemicals and aluminum processing, laying a solid foundation for high-quality economic development.

In 2018, the city signed agreements for attracting 1,203 new projects, with an actual investment of 260 billion yuan. The number of

projects increased 12.01 percent and investment amount grew 6.8 percent over the previous year.

During the same period, a total of 1,268 new projects broke ground in Guiyang. In addition, 1,085 projects became operational, an increase of 37.34 percent from 2017.

Late last year, the Guiyang gov-

ernment announced in a report that it would be gearing up to implement a higher level of opening-up, further supporting and strengthening its real economy, and speeding up efforts to achieve high-quality development by seizing a number of key strategic opportunities.

The opportunities mentioned by name included the Belt and Road

Initiative; the New International Land-Sea Trade Corridor, which is a memorandum of understanding signed between China and Singapore in 2018 under the China-Singapore (Chongqing) Demonstrative Initiative on Strategic Connectivity; and Guizhou's construction of an inland open economic pilot zone.

Government departments at all levels in Guiyang will also deepen reform, expand opening-up and create a better environment for international businesses, said Chen Yan, party chief and mayor of Guiyang.

Chen is attending the ongoing National People's Congress session in Beijing as a deputy.

Roadmap outlined for investment

By YUAN SHENGGAO

Guiyang plans to enhance its real economy by attracting more investment from home and abroad, according to its recent economic development plan.

The plan was approved by the local Party's standing committee at the end of December.

Local authorities expect to introduce 30 advanced manufacturing and trade enterprises funded by leading multinational companies by 2020, with investment totaling \$2 billion, according to the plan.

Meanwhile, the city plans to attract domestically invested projects, with combined investment of 150 billion yuan (\$22.38 billion).

Guiyang aims to introduce \$5 billion of overseas investment and 300 billion yuan of domestic investment by 2025, according to the plan.

The plan said Guiyang will attract funds to boost its advanced manufacturing sector by targeting Europe, Japan, South Korea, Southeast Asia and South Asia, as well as China's developed regions, as its major investment sources.

Through drawing on resources including excellent enterprises, qualified personnel and state-of-the-art technologies, the city intends to build up a manufacturing industry powered by digitalization, internet and intelligence.

Introducing new technologies, new industries and new operational modes will be the focus for strengthening the real economy of Guiyang, according to the plan.

When it comes to new and emerging industries, the city will launch



Workers check the quality of components at Hisense's smart TV plant in Guiyang. ZHENG ZENGXIONG / FOR CHINA DAILY

1,203 new projects

were attracted to Guiyang last year

projects relating to mobile communication terminal products, semiconductors for communications, wearable equipment, high-resolution TVs, smart home appliances, virtual reality and augmented reality products, robots and smart cars.

Other priority industries that Guiyang plans to develop are the environmental and ecological sectors, including energy and water conservation, recycling of resources, clean-energy and new-energy vehicles.

The city also plans to develop production-oriented service industries such as industrial design, e-commerce, modern logistics, product testing and certification.

To make attracting investment more efficient, the city is developing professional teams for investment promotion, using new technologies

such as big data for appraising and tracking projects.

The city plans to build a global investment promotion network, with an emphasis on such regions as Europe, Japan, South Korea, Southeast Asia and South Asia, as well as the developed regions within China.

The city will cooperate with international investment agencies based in Germany, France, Italy, Switzerland, Japan and South Korea, aiming to build up ties with local companies.

It will also collaborate with the Ministry of Foreign Affairs, the Ministry of Commerce and other State organizations for investment promotion.

Guiyang has made progress in attracting investment recently.

After it attracted 1,203 investment projects in 2018, Guiyang saw the launch of 31 projects, with total funding of 23.8 billion yuan by Feb 18 this year. Another 24 projects, with investment totaling 13.6 billion yuan, became operational during the same period.

Most of the projects are related to manufacturing industries including equipment production, electronics, medicine and chemicals.

Guizhou Tyre Co builds on recent triumphs in overseas operations

By LIANG KAIYAN
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As it continues to upgrade and improve its equipment and products, Guizhou Tyre Co is expanding its markets by setting up production bases at home and abroad.

Located in the Zhazuo Industrial Park in Xiuwen county of Guiyang, one of the company's development and production bases covers 153.33 hectares and produces 2,000 types of tires that are widely applied to special vehicles for agriculture, mines and as well as desert-specific equipment.

Liao Chengchen, 46, is one of the company's workers in charge of equipment maintenance.

"With increasing demand for tire production, electronic equipment should also be improved," Liao said.

Power supply is crucial for production, he explained, adding that sufficient supply of power is the guarantee of yield and quality.

In 2018, the company made great achievements in both production and sales, Liao said, noting that this was closely related to its

technological transformation and innovation.

Data from the company shows that its production capacity has increased about 30 percent after this transformation, producing more than 5.68 million sets of tires last year.

With a philosophy focusing on improving quality and developing distinctive products, the company has steadfastly upgraded its technology.

In the early 1990s, the company introduced advanced and scientific research and testing equipment from countries such as the United States and Germany to upgrade its products.

When the company was founded in 1958, it could only produce 30,000 small-sized tires annually and a small quantity of other rubber products. With 60 years of development, now it has the capability to produce more than 5 million sets of tires annually.

In recent years, the company has gradually implemented a transformation toward intelligent production through the use of big data and other smart technologies.

It has also improved its management level aligned to inter-

national standards to push the company toward high-quality development.

One of the leaders in tire production in the country, Guizhou Tyre has sold its products in such varied regions as North America, Australia, Europe and the Middle East.

In response to the Belt and Road Initiative, the company has invested a total of \$400 million into establishing an overseas base in Vietnam, part of its push to explore overseas markets.

Setting up the base in Vietnam is conducive to reducing operational costs, especially for exports of original material and products, thanks to the country's abundant human resources and energy, said an executive of the company.

The base is expected to be put into operation this year, he said.

In December, the Guiyang city government issued a document declaring its intention to improve its level of opening-up through promoting the globalization of its real economy.

To this end, the company will accelerate the implementation of its strategy to build bases and develop in overseas markets.



Guizhou Tyre Co is among the leading tire producers in China. PROVIDED TO CHINA DAILY