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YIZUMI Customer Magazine

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Creates more value for customers

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YIZUMI Factory Outlet

**Ranked TOP 2!
YIZUMI on the List of China Plastics Injection Molding Machinery Industry in 2021**

Competitive Enterprises List of China Plastics Injection Molding Machinery Industry in 2021 was officially released by China Plastics Machinery Industry Association (CPMIA) on August 31st.

YIZUMI is ranked second and third in "Top 18 Enterprises of China Plastics Injection Molding Machinery Industry in 2021" and "Top 30 Comprehensive Strength Enterprises of China Plastics Machinery Manufacturing Industry in 2021" respectively, sorted by main business income and net profit.

In 2020, YIZUMI operating income was CNY 2.718 billion, a year-on-year increase of 28.59%; the net profit attributable to shareholders reached CNY 314 million, a year-on-year increase of 62.93%; the sales revenue of injection molding machine rose by 41.37%, exceeding CNY 2.023 billion.

Since last year, the sudden outbreak of COVID-19 has brought enormous challenges to the global manufacturing industry. However, with years of deployment in product, market and lean production, YIZUMI has been strong enough to defend against risks and quickly recovered to the high-speed development after the epidemic started to slow down.

According to the competitive pattern of global machinery and equipment industry, YIZUMI makes good use of its own disadvantages and adheres to the three strategies —product, operation and globalization to conduct machine series optimization.

YIZUMI has improved the product layout of general three-platen hydraulic injection molding machine in a segment market; intensively researched on special process application of two-platen injection molding machine of large tonnage that features servo drive, energy-saving and environmentally friendly; rebuilt the competitiveness of all-electric high-precision injection molding machine; focused on developing multi-component technical equipment; optimized high-speed packaging molding application equipment; constantly invested in special process application research to provide customers with cost-effective integrated solutions.

In the future, YIZUMI will remain true to our original aspiration of creating value for customers, and provide customers with competitive integrated solutions around the world. We sincerely hope that customers and partners can work together with YIZUMI to create a win-win relationship in the new journey.

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“YIZUMI is committed to becoming a world-class enterprise in its field. Making good use of our advantages and adhering to the three strategies —product, operation and globalization, YIZUMI adopts active adjustments on business strategy and explores deeply in both domestic and foreign markets. YIZUMI will embrace more promising development in the future.”

Li Donghai, Deputy General Manager of YIZUMI Injection Molding Machine Division



2021 H1 YIZUMI Revenue Increased by 58.78% Year-on-year

YIZUMI: Enhances product competitiveness Creates more value for customers



Recently, YIZUMI released the 2021 interim financial report. It was shown that YIZUMI had a solid performance and stable growth in the first half of the year: the operating income was about CNY 1.699 billion, a year-on-year increase of 58.78%; the net profit attributable to shareholders reached CNY 264 million, a year-on-year increase of 160.89%; among them, injection molding machine (including high-speed packaging system) had a noticeable performance, of which sales revenue is approximately CNY 1.226 billion, accounting for 72.16% of the company's total sales with year-on-year growth of 54.72%.

These remarkable data can't leave without YIZUMI's insistence on Innovation-driven transformation and globalization strategy. In the past few years, YIZUMI has been investing heavily in R&D investment and connecting global innovation resources, constantly benchmarking the world-leading manufacturing standards to promote technological innovation, and exporting high-quality machines to the global market.

Li Donghai, deputy general manager of YIZUMI Injection Molding Machine Division said: “YIZUMI is committed to becoming a world-class enterprise in its field. Making good use of our advantages and adhering to the three strategies —product, operation and globalization, YIZUMI adopts active adjustments on business strategy and explores deeply in both domestic and foreign markets. YIZUMI will embrace more promising development in the future.”

Lean Manufacturing Method Stronger Production Capacity & Faster Delivery

In the first half of 2021, the demand for injection molding machines and the company performance have been rapidly growing due to consumer demand recovery, the manufacturing industry rebound, and the stable and positive domestic economy.

The demand of 3C, healthcare, packaging, household appliance, building materials and other industries that YIZUMI is involved in is surging. Especially with the automobile industry recovery and new opportunities arising, YIZUMI's different product lines grow sturdily, including three-platen energy-saving servo injection molding machine, precision electric injection molding machine, multi-component injection molding machine, among them, the medium and small tonnage injection molding machine has the most impressive performance.

The rapid growth of production capacity determines competitiveness in a booming market. In this respect, Li Donghai introduced: “YIZUMI introduced the lean manufacturing method to achieve high-quality and rapid delivery. The improvement of the logistics system and the building of the assembly line ensure delicacy management through the whole processing chain, from components arrival to product delivery.”

After introducing the lean manufacturing method, YIZUMI medium and small tonnage injection molding machine have been put into flow-line production. Now, assembling an injection molding machine needs 20 minutes on average, leading to a 60% increase in manufacturing capacity year on year. The production efficiency and delivery ability are significantly improved, contributing to injection molding machine sales growth.



Injection molding workshop at YIZUMI



The company centers on the development strategy to complete all tasks and strengthen the core competitiveness. YIZUMI is a trendsetter in exploring advanced technologies between China and Europe, and constantly develops forward-looking innovative processes and technologies; in addition, YIZUMI continuously designs the international market layout to improve its brand influence.

Li Donghai emphasized: "Facing the development opportunity in the industry, YIZUMI seizes the momentum, develops high-quality energy, and fully makes good use of the industrial benefits. The company will take the trend, adhere to high-quality development road, and fully enjoy the development dividend of the industry. Moreover, YIZUMI adheres to the strategic direction, speeds up the layout of the global market, strives to cater to the global high-end customer group, and seizes the high ground of the industry."

Focus on Industry Trend Looks towards the Future

A large number of Chinese industries are gradually moving from labor-intensive methods to technology-intensive methods. A lot of automation equipment is used in manufacturing to further improve efficiency, capacity, quality, corporate image and market competitiveness. So injection molding machinery industry is a promising industry, having great potential for development.

As one of the management of YIZUMI Injection molding Machine Division, Li Donghai has a unique insight into the present state of the domestic injection molding machine industry. According to his analysis, the explosive growth is hard to maintain based on the economic and industrial cycle, so it will probably return to normal. However, the plastic application fields will continue to expand due to the properties of plastic and the development of mold technology.

In recent years, the new energy vehicle sector has been growing in the entire automotive industry. In the future, the driving experience will become better as the new energy vehicles become smarter. A series of changes

from design and manufacturing aspects, including automotive interiors and internal electronic systems, will bring more new technical requirements on the component molding.

For example, YIZUMI ReactPro Polyurethane and Injection Molding Integrate Solution aims at satisfying the new functional demands in the automotive industry such as various color, better texture, etc. It is competitive to apply in the new energy vehicle industry in terms of products and processes.

In addition, YIZUMI developed various machine models to respond to the different purposes of customers. For instance, multi-component two-platen injection molding machine-special for Marelli four-color headlight special molding, an innovative product in the industry, can support double-color, triple-color, four-color injection molding manufacturing, with great flexibility.

Regarding lightweight, which has been a concern of the industry, YIZUMI brought physical foaming molding solution and chemical foaming molding solution. These solutions have been applied on the customer site to reduce the product weight and promote lightweight in the new energy vehicles field.

Responds to the Carbon Neutrality Vision Innovative Technologies Drive Industry Change

When talking about the energy industry trend, Li Donghai said General Secretary Xi Jinping has made it clear that China will strive to peak carbon dioxide emissions by 2030, achieve carbon neutrality by 2060. It means that the carbon emission will be cut down to zero by that time while fossil fuels such as coal, oil and natural gas will be phased out. And indicating green energy, artificial intelligence, the Internet of Things, block chain and other technologies will become the key technologies of the fourth industrial revolution.



■ Two-platen injection molding machine assembly workshop at YIZUMI



■ General assembly workshop at YIZUMI



■ Electric injection molding machine workshop at YIZUMI



To achieve this development goal, enterprises need to think about how to reduce carbon emissions and how to manufacture products in an energy-saving way. As an equipment manufacturing enterprise, YIZUMI is not only thinking, but also acting.

A 78,000 square meter photovoltaic generation system on the roof of YIZUMI Wusha factory has been completed and put into service. Photovoltaic generation accounts for about 27% of the company's electricity consumption, realizing zero discharge of waste water and exhaust gas. In addition, YIZUMI tries to reduce water consumption by filtration and composition adjustment, and manufactures products with lower energy consumption by recycling.

In the past two years, YIZUMI has developed energy-saving technologies and invest heavily in energy-saving product promotion, such as all-electric injection molding machine, hybrid injection molding machine, which saves about 20% of energy than the traditional hydraulic machine. All-electric injection molding machines and hybrid injection molding machines with large tonnage are now under development.

It is expected that next year, the tonnage range of all-electric injection molding machines will be extended to 1380T, which can better save energy for downstream customers. And the newly-developed energy-saving technology will save energy for material drying as well.

From now on, YIZUMI will gradually improve the manufacturing process to achieve green manufacturing and develop some special models and technologies for degradable and recyclable materials to help different downstream industries, striving to promote degradable materials applied on a much larger scale.

Speeds up Development Creates a Win-win Relationship with Customers

The solid performance and strong market position have built YIZUMI's confidence. "As an equipment manufacturer, YIZUMI will continue to accelerate innovation to drive high-quality development," Li said.

In the future, YIZUMI will manage to meet the market demand, improve the techniques and marketing ability, speed up the overseas layout, establish technical service centers in key regions and markets, and standardize the global customer service process.

In terms of manufacturing and operation construction, YIZUMI will speed up its transformation towards a digital factory, build up a first-class quality management system and process, and constantly improve product quality, to meet high-end customers' requirements for the product quality as well as the whole delivery process.

In terms of product development, YIZUMI will focus on the field of multi-component, all-electric and large-tonnage two-platen

injection molding machines and invest more in the development of the new process, technologies, and integrated solutions to create more value for customers from different industries.

At the same time, we will further improve our management in respect of customer service and technical support to enhance our competitiveness in the high-end market and establish a good reputation among customers.

"Only by adjusting and improving the equipment according to the customer demands and market changes in the first time, can we create a successful customer-driven product." In response to the rapidly changing market, Li Donghai hopes that: "We will continue to expand the productivity and sales volume while enlarging market share, constantly optimize machines to improve the competitiveness, and better serve customers to create a win-win relationship."

Future



The Indian market has become the largest overseas single market for YIZUMI

Strengthening development in the Indian market to help achieve YIZUMI's global strategic objectives

INDIA



As we all know, India and China are two of the largest developing countries in the world and are very similar in many ways. Both countries have brilliant historical and cultural heritage. Both have a population of more than 1.3 billion. Many believe that China's today will be India's tomorrow.

As a modern material with many properties, plastics play an irreplaceable role in industry, agriculture, and consumer field. In recent years, India's plastic machinery and equipment market has expanded rapidly.

India's plastics consumption has been growing at 16% every year, well above China's 10% and the UK's 2.5%, making it one of the fastest-growing countries in the plastics industry. However, India's plastic machinery market currently requires further improvement to match its population size and economic level.

When confronted with this great plastics market, an earlier market deployment will help seize more opportunities. As an important injection molding machine manufacturer in the industry, YIZUMI has made a very forward-looking decision to dig deep into Indian market and build a strong business foundation for its marketing, service, and production technology.



Remarkable result: YIZUMI's India factory has manufactured and sold 1000 injection molding machines

YIZUMI has leased industrial space to manufacture and sell injection molding machines in India since 2017. YIZUMI India factory is an injection molding machine manufacturer offering design, production, sales, and customer services. Based on hiring local management, sales, production, and technical personnel, the enterprise has copied the management model of YIZUMI headquarters and implemented the entire system of it including quality control and product delivery management in the India factory to ensure quality and rapid delivery of injection molding machines made in India.

In its first year of operation, the value of YIZUMI India factory shipment exceeded Rs 400 million. In 2021, despite the severe pandemic situation in India, the sales of YIZUMI injection molding machines in the Indian market grows rapidly and is projected to double by end of the year. By September 2021, YIZUMI India factory has produced and sold 1,000 injection molding machines. The Indian market has emerged as the largest overseas single market for YIZUMI.

The rapid development of YIZUMI India factory represents our strong competitiveness. YIZUMI's injection molding machines deliver the design and quality comparable to the machines made in U.S.

and European countries while offering great cost advantages. With positive feedbacks, YIZUMI's machines have established a great reputation on the market, continuously receiving purchase orders from both new customers and existing customers.

Aiming at the Indian market, YIZUMI launched comprehensive and systematic field research. Data indicate that India's current level of plastic consumption is lower than that of China and some developed countries while the demand for mainstream consumer goods, such as automobiles, household appliances, and 3C is strong. The production needs to be unleashed to release its potential.

Targeted at the Indian market, YIZUMI market and technical teams demonstrated their capacities in program implementation. They quickly developed the integrated solutions for the Indian market and wide platen machine series specially designed for Indian customers. YIZUMI's three-platen machines, high-speed packaging system, and the full series of two-platen machines have achieved very good sales performance in the Indian market.





**Acquired land
To construct a India factory,
digital, precision production base**

As the business expanded, the restricted space couldn't fulfill the rapid-growing market demand anymore and even constrained its development pace in India. Given its firm confidence in the continued development in the Indian market, with its strategic global layout in mind, YIZUMI acquired a lot in Gujarat to build its own modern factory.

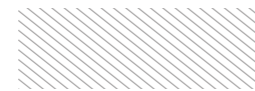
The new factory is located in the GIDC Industrial Park in Gujarat state, adjacent to Mitsubishi Electric and covering an area of 80,000 square meters. When fully completed, the annual output is expected to be 10 billion rupees. The current first phase construction has an annual production capacity of approximately 5 billion rupees. Using the factory requirements of YIZUMI headquarters as the reference, the design and construction of the new factory adopt the highest standards to build an intelligent, digital, precision modern advanced production base.

The first phase of the plant construction is progressing well. The primary frame of the building is nearly completed. The design and bidding process for water and power supply, as well as equipment configuration, are also completed. Orderly conduct of works is pushed forward as planned. The plant is expected to be operational by the first half of 2022. By then, equipped with advanced production equipment and management concepts, YIZUMI India factory will provide customers in the Indian market with better

product quality and shorter delivery time, taking its business to the next level.

YIZUMI India factory will continue to focus on customer service and product quality to achieve excellence in all aspects. Externally, the company adopts a customer-oriented business approach, striving to provide customers with better pre-sales and after-sales service to increase customer confidence in buying and using YIZUMI's machinery. Internally, it will continue to strengthen the management infrastructure to ensure product quality, timely delivery, and market competitiveness.

NEW FACTORY



INDIA



Because of India's geographical location, upon completion, the factory will be able to supply the surrounding countries after fulfilling customer demand in India and drive the market expansion of YIZUMI injection molding machines in South Asia, Central Asia, and Africa.

In recent years, YIZUMI's global layout strategy has been making steady progress, with the completion of the German R&D center, YIZUMI Vietnam, and French spare parts center. The acquisition of a larger lot in India for its higher standard intelligent manufacturing base is YIZUMI's largest investment project in overseas markets to date, representing another solid step forward in its global layout.

As the pivot point of YIZUMI's global strategy, the India factory is a positive, forward-thinking example of this strategy. The successful experience of YIZUMI's India factory may also be copied to many more new plants of YIZUMI and contribute to the success of YIZUMI's globalization objectives.

■ Rendering of YIZUMI new factory in India

YIZUMI energizes sustainable development with a green engine

Photovoltaic energy accounts for 27% of total power consumption



Watching from a distance, the roof of YIZUMI Wusha factory looks like a pond of blue water. A large collection of PV solar panels are mounted upwards in square arrays, glowing like fish-scale under sunshine.

YIZUMI has covered the 78,000 square meters rooftop of Wusha factory with photovoltaic solar modules. While the PV panels absorb the energy from the sunlight, the power production reading on the electric meter goes up rapidly.

YIZUMI's PV project takes a "self-generated power for self-consumption with the excess going to the grid" approach to generate electricity in 10kV high voltage. The amount of energy generated gives the priority to self-consumption of the plant. The surplus energy will be fed into the national grid.

"The rooftop PV solar project makes full use of the renewable energy and effectively optimizes the regional energy structure. It not only reduces the energy costs but also helps to foster the transition of the enterprise toward a green and low-carbon economy," said Zhuokun Yu, the Deputy Managing Director of YIZUMI.

Make good use of rooftop space Promote a green and low-carbon development

Located in the hinterland of the Pearl River Delta Region, Foshan is characterized by the number of sunny days and long duration of sunshine with intensive solar radiation. It offers unique advantages of new energy reserves. YIZUMI has taken full advantage of natural resources and started exploring pollution-free, radiation-free, and sustainable

PV power projects since 2017. The available rooftop space has gradually been utilized.

In this regard, Zhuokun Yu said: "As the world's first country that activated the new energy transformation, "rooftop PV" has formed a unique landscape in Germany. All our German partners have installed solar panels on their rooftops. It undoubtedly provides a good reference for YIZUMI's decision making."

After a comprehensive assessment, YIZUMI launched the first phase of its PV power generation project. The "Pilot Solar Farm" employs a fixed income model. In other words, it rented out the factory's rooftop space to a PV enterprise that provided equipment and maintenance services. In recent years, with the country increasing the support to photovoltaic and other new energy industries, the PV industry system is becoming more mature, leading to lower investment costs. YIZUMI has completed the second-phase construction of its PV project.

Today, the 78,000 square meters rooftop space of YIZUMI Wusha factory is fully covered with solar panels. Among them, the first factory provides 36,000 square meters for 9816 units of 270Wp polycrystalline silicon modules while the second factory provides 42,000 square meters for 6726 units of 320Wp monocrystalline silicon panels. The total installed capacity of the PV power generation system reaches 4,802.64KW. The solar panels absorb light from the sun and convert optical energy into electrical energy that flows through inverters before being fed into transformers.



■ YIZUMI Wusha Factory 2

Green Environmental Protection





“ All of our new plants under construction or planned to build in the future have the adaptive designs for PV systems, including roof load bearing capacity, PV system wiring, etc. We also actively promote green and smart factories when planning plants for the upstream and downstream enterprises.”

Zhuokun Yu, Deputy Managing Director of YIZUMI



In order to collect the power generation information of the solar power plant, the project is also equipped with a PV monitoring system, transmitting information such as rated power, daily power generation, and other information related to the operation status of the power station to the monitoring room of the YIZUMI factory. Operation personnel can view each set of PV panels at any time and pinpoint problems, significantly improving the efficiency of PV power generation.

Reduce electricity grid strain and ensure production activities of the enterprise

Due to the current power shortage in China, especially in the economically developed regions such as Pearl River Delta and Yangtze River Delta, the power grids have to exercise power cuts and peak load shifting to ease the strain. However, such measures take a toll on certain manufacturing industries.

After YIZUMI’s PV project completes the construction, it generates electricity during the “Golden Power” time of day, which is also the peak energy demand time for

enterprises. The seasonal power consumption curve indicates that electricity load is generally highest in the summer months, which happens to correspond to the amount of electricity generated by a PV system. The PV energy supply greatly alleviates the strain on the factory’s power line in peak demand time and mitigates the impact of power rationing on the production activities.

In addition, the rooftop solar panel installation helps reduce the indoor temperature in the workshop by 2-4 degrees. It improves the comfort level in the plant while reducing the energy needs for air conditioning and total power consumption of the factory to achieve the building energy saving of the plant. Meanwhile, the solar modules covering can prolong the roof’s service life and reduce roof maintenance costs.



With the completion of the photovoltaic system, the plant will consume the solar power first and pull energy from the utility grid as the supplementary power source. At present, YIZUMI’s photovoltaic power station generates about 27% of its total electricity consumption. The practice is in line with the country’s industrial policy and the sustainable development strategy that conserves energy, water, and the environment.

Zhuokun Yu said, “All of our new plants under construction or planned to build in the future have the adaptive designs for PV systems, including roof load bearing capacity, PV system wiring, etc. We also actively promote green and smart factories when planning plants for the upstream and downstream enterprises.”

Build green economy to promote enterprise social responsibility

According to the Meteorom meteorological database, the monthly solar radiation in the Foshan Shunde area has been about 1216kWh/m² since YIZUMI’s photovoltaic power station was put into operation.

Combined with the 80.3% designed efficiency of the photovoltaic system, the monthly and annual power generation of the PV power station can be easily estimated.

Based on the power consumption in Wusha factory, the system can produce about 4.665 million kWh of AC energy in the first year, an annual average of 4.243 million kWh over 25 years, and a total of about 106.075 million kWh in 25 years. The PV power can save approximately CNY 584,500 of electricity cost each year for YIZUMI. The total saving in 25 years will reach CNY 14.6125 million.

If it takes 360 grams of standard coal to produce 1 kWh of electricity, each kWh of electricity generated by the PV system can save 0.26 liters of fuel or 0.36 kg of coal, which also means fewer emissions of 0.997 kg of carbon dioxide, 0.0118 kg of sulfur dioxide, and 0.0043 kg of nitrogen oxides. At the same time, it reduces 0.272 kg of dust generated by coal-based power plants and saves 4 liters of clean water.

What the “Green Accounting” reflects is precisely the determination of YIZUMI to promote the new energy development and application as well as energy conservation and emission reduction under the guideline

of carbon peak and neutrality goals. It is also one of the initiatives of the enterprise to practice its social responsibility and industry responsibility. “With the help of the PV industry and smart technology, we are transforming the gift of nature into tangible benefits,” said Zhuokun Yu.

In recent years, the state has strongly advocated the development of renewable energy in an effort to reduce the consumption of conventional energy resources such as coal and achieve the strategic goal of sustainable green development. This is consistent with YIZUMI’s concept of sustainable development.

In order to achieve carbon neutrality by 2060, fossil fuels such as coal, crude oil, and natural gas have to phase out and be replaced by solar, wind, and other clean energy. As an innovative enterprise, YIZUMI will vigorously promote the applications of green manufacturing technology, develop energy-saving technologies and products, and push forward technological progress in the industry.



■ YIZUMI Wusha Factory 2

Ouning: Make solid progress on the innovative strategy



Guangdong Shunde Ouning Technology Electrical Appliance Co., Ltd is a high-tech manufacturing enterprise, integrating research and development, manufacturing and sales of electrical appliances, such as electric pressure cookers, air fryers, multi-functional pressure fryers and electric ovens.

Ouning is dedicated to providing families safer, healthier and more fashionable eco-friendly cooking products around the world. Its products have been popular with consumers and exported to America, Russia, Canada, and other overseas markets. Ouning also has become one of the large-scale manufacturing bases of electric pressure cookers, air fryers, and multi-functional cookers, with annual output value reaching CNY 1 billion and annual output capacity exceeding 3 million units.

Practical & innovative To bring customers enjoyable life experiences

Innovative R&D has improved the competitiveness of Ouning. Meanwhile, Ouning also pays more attention to customer experiences. In response to the increasing demand for customized and intelligent appliances, Ouning intensively researches customers' living habits and demand changes and strives to bring more enjoyable life experiences for customers.

With shorter service life, small appliances upgrade and renew more rapidly compared with large appliances. Huang Zhenxiong, general manager of Ouning said: "If you want to show your advantages and become more competitive in this field, you need to master core technologies to improve the cost performance and quality of the products."

A few years ago, electric pressure cookers and air fryers were in great demand in the North American market. How to combine two products' functions has become one of the R&D directions of Ouning. Huang Zhenxiong introduced: "The technical difficulty is the design differences between pressure cooker and air fryer. Pressure cooker is required of good sealing structure and pressure bearing capacity, while air fryer is required of temperature balance inside cooking chamber with the help of air flow." After many experiments, we finally broke through the technical bottleneck and successfully developed the multi-functional cooker with pressure cooking and hot air baking functions. It also offers more air volume, and is easy to store, clean and install.

The multi-functional pressure fryer newly developed by Ouning is a perfect combination of Chinese and Western kitchen styles. The product has functions of switching from pressure cooking to hot air baking, leading to a new trend on kitchen appliances and becoming a hot seller.

Over the years, Ouning adheres to technological innovation and professional quality. With cooperation between some capable industrial design companies and scientific research institutions, Ouning has obtained nearly 100 innovation patents that are considered quite creative around the world.



"It has been proved that YIZUMI injection molding machines are stable, convenient and efficient, and can shorten the cycle time. And when we meet problems, YIZUMI technical team will solve the problems as soon as possible after receiving a repair call to ensure no delay in production."

Huang Zhenxiong, General Manager of Ouning



Down-to-earth To bring customers assured products

Under the pressure of rising materials costs, Ouning responded more quickly than other companies in the industry. It has eliminated a group of obsolete equipment and introduced into more than 80 sets of injection molding machines, some of them are YIZUMI injection molding machines. It is believed that the powerful performances of the new equipment can help increase enterprise benefits.

In the workshop of Ouning, about 30 units of YIZUMI injection molding machines are placed in line. And you can see the supporting robot is steadily picking a steamer cover to the conveyor belt while operators are deburring, inspecting and packaging.

Huang Zhenxiong introduced that Ouning's products are mainly export-oriented, aiming to Canada, the United States, Japan and other regions. In addition to the existing offline outlets, the company has also established Amazon online store to promote sales.

For sure, successful product promotion is inseparable from the help of YIZUMI and other brands' injection molding machines.

"Overseas customers put a high value on punctuality. Delayed delivery will not only cause economic loss but also cause customer loss." Huang Zhenxiong expressed, "It has been proved that YIZUMI injection molding machines are stable, convenient and efficient, and can shorten the cycle time. And when we meet problems, YIZUMI technical team will solve the problems as soon as possible after receiving a repair call to ensure no delay in production."

Ouning insists on the people-oriented principle. Safety is always the first during production. Regarding environmental protection, Ouning always uses materials that meet national standards to ensure the quality requirements, so that consumers can use qualified products.

Huang Zhenxiong believes that innovation wins the future. Only innovation can help the enterprise rank top in the industry and create first products. Boosting industry innovation doesn't happen overnight. Only by continuous innovation and constantly surpassing ourselves can vitality flow through the industry. In the future, Ouning will continue to persist in innovation, provide customers with better products, and strengthen enterprise competitiveness.



Mixing-free and drying-free DCIM solution: Integrated digital solution demonstration



At YIZUMI's production workshop, there is an automated production line for safety door roller. The entire production process is carried out in automated operations, from raw materials feeding to injection molding, automatic conveying and embedding of bearing inserts, in-mold monitoring, automatic product picking up, packing and placing, warehousing, etc. The rollers produced are used for injection molding

peripheral auxiliary devices and metering equipment in an integrated manner. The process parameters can be uploaded to the cloud at the same time for remote management.

As a benchmark project that embodies the integration capacity of YIZUMI system, the solution is upgraded with the mix-free pelletizing, drying-free DCIM programs. In the

for degassing plasticizing system and air extractor, the injection molding solution integrates the "Direct Compounding Injection Molding" and "Drying-free Injection Molding." During the operation, the injection molding machine heats the plasticized plastic melt using the degassing plasticizing system and conveys the plastic melt to the degassing position. The air extractor will evacuate the moisture and exhaust gas in the plastic melt from the exhaust outlet and discharge it through the exhaust gas recovery port into the designated device for centralized treatment.

Drying-free: Traditional equipment needs to go through the following three major steps to produce engineering plastics: dehumidification→feeding→injection. This molding solution only needs to undergo: raw material feeding → injection molding, eliminating the drying procedure required in a traditional injection molding machine production to achieve energy conservation, emission reduction, and environmental protection.



machine assembly to achieve self-sufficiency, eliminating the need for external procurement.

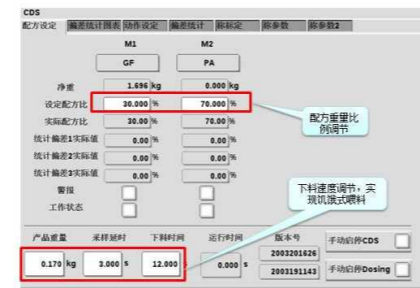
This is YIZUMI's new integrated solution for automated roller production. The equipment production system includes raw materials, molds, new processes, integrated control of peripheral devices, injection molding machine, automation units, industrial interconnection, and other technologies that form the entire plastic processing ecology.

Loaded with the CMS management system developed by YIZUMI, the controller of the injection molding machine controls the

injection molding process, the PA6 and glass fiber are dosed and mixed in proportion. Moisture and gas in the plastics are fully extracted to achieve a pelletizing-free and drying-free result. The solution is a proven approach toward the high performance of production and products.

Less process steps: Eliminate traditional process steps / Green production mode

Equipped with an exhaust gas recovery port, a vacuum device, degassing plasticizing system for plastic heating, and a connector



Pelletizing-free: The DCIM (Direct Compounding Injection Molding) system adds two or more sets of metering devices to the equipment to provide real-time measuring of the materials. The materials are fed into the hopper in set proportion under closed-loop control. The dosing is adjusted in real-time. The materials are mixed in the injection molding screw and directly injected into the mold without the step for material pelletizing.

shearing on materials during pelletizing. For reinforced composite materials such as fiberglass, second shearing could result in a very high loss rate. This technology ensures the length of the fiberglass in the product to the greatest extent and maximizes the overall performance of the composite materials. In the meantime, as it allows flexible dosing adjustment and on-demand production, the system offers a great advantage in energy saving, lightweight, and plastic recycling rate.

Function upgrade: The new molding equipment improves the overall performance of materials

Newly designed special plasticizing system: Focusing on low shear mixing and uniform dispersion.

Add "Isochoric Flow" wavy structure based on the degassing screw to achieve low shear mixing throughout the injection molding process and ensure that the glass fiber completes injection molding under low shear strength. Compared with the traditional injection molding, it eliminates the pelletizing process to save energy and avoid second

Bearing customer value in mind, YIZUMI has been making great efforts to offer overall solutions for injection molding automation and work closely with customers to go through their production processes. The pelletizing-free, mixing-free and drying-free DCIM solutions overcome the shortcomings of production with traditional equipment, optimize the production process, and integrate several processes to achieve energy conservation and emission reduction while allowing recipe optimization and flexible recipe adjustment for optimal production results.



Plant protection made by competitive 3D printing



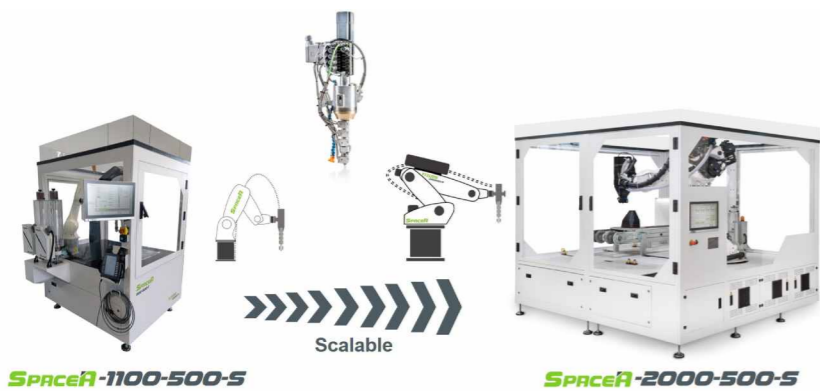
Biofibre is a mid-sized compounder for biopolymers and biocomposites, based near Munich in Germany. The offering are bioplastic compounds tailor-made for several applications and processing technologies. In 2020 the compounding capacity was increased. Since then the company is constantly looking for new applications and partnerships to sustainably grow the business. The main focus is on biobased, biodegradable compounds with natural fiber reinforcement. One of the really successful projects, called EcoSpacer, was for example honored with the Biopolymer Innovation Award in 2019, where the wood-fiber filled compostable compound Silva was used to separate concrete labs.

For the present project Biofibre partnered with Yizumi Germany. Both companies have set a similar target, i.e. to grow sustainably with smallest impact on nature as possible. For their 3D printing business with the machine concept of Yizumi, named SpaceA, energy reduction and fast production cycles are core. By the use of the energy efficient additive manufacturing a small to midscale

production can realized in a simple, fast and competitive way compared to other additive manufacturing and established plastic processing processes. The 6-axis-robot of the printing cell allows moving the core part, which is a screw extruder. Thanks to the large build volume SpaceA allows a production of large scale plastic parts. The main advantage of the use of a screw extruder in 3D printing is the option to process conventional plastic resin. In comparison to the use of very expensive filaments, it can reduce costs on one side but also allows the utilization of highly filled and fiber reinforced compounds. The optional use of a conveyor belt leads to a machine system set-up which is able to print parts non-stop. Such a complete manufacturing cell is able to work on a level of 0.8 kWh/kg Material Throughput, which is a at least already for the forming process a good value. Additionally, using 3D-Printing technologies saves resources due to less demand in mold design and mold making and finally, also common 3D-Printer needs less resources to be produced, especially compared to big primary forming machines.



Picture 1: Plant protection printed with Biofibre Silva Si2900



Picture 2: Yizumi SpaceA



An ideal combination

The partnership of Biofibre and Yizumi Germany grew after very promising trials. The printing of Silva Si2900 showed a large processing window compared to other compostable plastics. Furthermore a good printability compared to other fiber filled plastic compounds was experienced. In comparison to other compostable compounds no fast degradation during processing was observed. The visual impression of uncolored printed surfaces of Biofibre Silva looks wood-like with a silk matt surface. The mechanical performance is comparable to stiffer polypropylene (PP). Depending on the die diameter the material offers space for a wide range of individual part designs.

With the processing and performance profile shown in these initial printing runs the team discussed about potential applications. One of those ideas is the processing of a flat and large sized mesh structure. This mesh is intended to be used as protection of seeded plants against animals who like to eat its sprouts or young leaves. This size of mesh protection is typical for the used as protection in vineyards after planting new wine grapes. In an unrolled form this mesh sized up to approx. 700 mm x 400 mm, which usually requires large molds and therefore also large primary forming machine technology. Using SpaceA-Technology also means that you can size up the mesh dimension easily, only by changing the CAD-Data and you can start the production instantly.

It is known that the production of those mesh structures in injection molding is quite challenging. Only very easy flowing polymers without fillers can be used to fill the mold. In opposite to that a production based on an extruded flat sheet which is trimmed afterward is quite complicated. Especially with the limitation on biodegradable plastics both technologies are tough to realize for this mesh dimensions. Biodegradable polymers lack either of mechanical stiffness or suitable

elongation. Summarizing, for injection molding the flowability of compostable compounds is one limiting factor. On the other hand the use of a suitable reinforcement has distinct limitations to the flat sheet extrusion technology as well. Overall Yizumi's SpaceA additive manufacturing technology provides a good production method for this flat mesh structure in the needed dimensions for wine grape applications. In combination with the 20% wood fiber reinforced Biofibre biopolymer, the material provides a combination to produce a mechanical stiff mesh structure which is still bendable enough for this application. Furthermore, through the inclusion of natural fibers the biodegradability may be tuned.

After adjusting the processing speeds and needed temperature profiles, the print took 3 minutes to produce one part. To simulate a continuous production printing took place directly on a conveyor belt. Tests running with wine farmers showed that the parts were easy to apply and very resistant to provide sufficient protect already against rabbits and hares due to the tailored design and the inherent mechanical properties from the biocomposite material.

Additionally, for furniture applications, where thick wall dimensions and high mechanical stiffness testify to a high value, Yizumi invented the use of chemical foaming within the 3D-Printing process. By means of this technique it is possible to reduce the part weight up to 40 % and create lightweight parts with high mechanical properties. Therefore, it is possible to create parts with an additional resource saving approach. Due to the smart extruder design, it is possible, just to integrate the foaming agent as a masterbatch, like we do with color masterbatches as well. This leads to a homogeneous foamed melt strand, which leads to a unique surface appearance.

In summary this application of a plant protection shows that the clever combination of new biomaterials and

innovative machine technology open up new potentials for part designs. Joint efforts are currently spent on furniture applications.

Homepages:

<https://biofibre.de/en/>
<https://www.yizumi-germany.de/en/>

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Picture 3: Side wall of a printed part made of Biofibre Silva Si2900

Three Exhibitions in Europe

YIZUMI presented the FF series electric injection molding machine and other integrated solutions



Many European offline exhibitions for the plastics industry were presented in the third quarter. YIZUMI actively took part in the "exhibition tour" in Europe, namely kuteno-Kunststofftechnik Nord (KUTENO) and Fakuma in Germany, Interplas in the UK.

YIZUMI showcased the cutting-edge integrated solutions based on the flagship product -FF series electric injection molding machine during the exhibition tour.

Based on European and German standards, FF series adopts a modularization design that clamping units and various injection units can be combined flexibly per the customers' requirement. With injection speed at about 200-350 mm/s, the position accuracy of injection and mold closing & opening is within 0.05mm, its advantages of high precision, high efficiency, high stability, and automation could satisfy the requirements of

European customers in different sectors. YIZUMI electric injection molding technologies and machines are widely applied in industries such as precision electronic, medical, packaging, automobile spare part, etc.

Besides the FF series electric injection molding machine, YIZUMI also displayed the A5-EU series injection molding machine in Interplas, which better meet the usage habits and performance needs of European customers with upgraded configuration, high stability and precision.



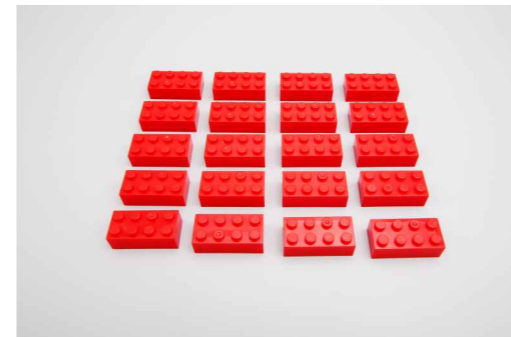
Medical Supply



Phone Back Frame



Top and Bottom Case of the USB Data Cable



Building Blocks



FF120 series electric injection molding machine



UN220A5-EU

Let's look back on the exhibitions YIZUMI had attended in Europe!



Exhibition: Kuteno
Date: September 7th-9th, 2021
YIZUMI Stand: Hall 5, Booth M1, Rheda-Wiedenbrück, Germany
Exhibition Model: FF120 injection molding machine + electric injection unit
Exhibition Introduction: KUTENO-Kunststofftechnik Nord exhibition is an emerging B2B trade fair in northern Germany, which covers the entire process chain of the plastics processing industry. KUTENO 2021 mainly focused on circular economy and jointly explored sustainable plastic application solutions.



Exhibition: Interplas2021, UK
Date: September 28th-30th, 2021
YIZUMI Stand: Hall 3A, Booth GG10, National Exhibition Centre, Birmingham
Exhibition Model: FF120 injection molding machine + electric injection unit, UN220A5-EU
Exhibition Introduction: Interplas is the UK's biggest triennial plastics industry event regarding the plastic manufacturing process, technologies and services. Interplas2021 attracted more than 350 exhibitors and over 12,000 potential buyers.



Exhibition: 27th Fakuma international trade fair for plastics processing
Date: October 12th-16th, 2021
Venue: Messe Friedrichshafen, Germany
YIZUMI Stand: Hall B5, Booth 5405
Exhibition Model: FF120 injection molding machine + electric injection unit
Exhibition Introduction: Fakuma is the world's leading industry event for injection molding, extrusion technology, thermoforming and 3D printing, also an important platform for innovations covering all aspects of materials, machines, peripherals and processes. Fakuma 2021 focused on the changeover from a linear to a circular economy.

*The Data above were acquired by testing in the factory, only for your reference. As to the specific data, please refer to the actual equipment.

YIZUMI Factory Outlet

New service standard for the industry

YIZUMI Factory Outlet (YFO), as a future-oriented global service strategy, ensures the fast response and high controllability of services. For customers, we not only guarantee their safe production, but reduce the equipment shutdown risk to a large extent so as to improve their productivity.

"From pre-sale consulting to onsite installment and commissioning, from after-sale tour-inspection to part delivery and customer training, each of us has the experience of more than 300 cases to enhance your confidence in our services." said an experienced YFO engineer.



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The worldwide part supply network ensures smooth, prompt and accurate part distribution

- China** 35 part centers and warehouses
- Abroad** 14 part centers in Indonesia, Malaysia, South Korea, Vietnam, Russia, Spain, France, Turkey, Israel, Poland, America, Iran, India and Brazil, etc.



Overseas service

Long-distance support: when there are complicated problems in the operation of machine, engineers of the headquarters will provide long-distance technological support for overseas agents or customers to solve the problems in time.

Pre-sales support: we have a team specialized in pre-sales technological support, and they will collect molding cases so as to provide solutions for overseas customers efficiently.

Communication: over 90% of our engineers can speak fluent English, which is conducive to solving customers' problems.



365/24

The service hotline is available 24 hours a day, 7 days a week, and 365 days per year with over 100 maintenance experts on line all over the world.

59

The YFO covers 35 Chinese cities and 24 overseas places.

35,000

The YFO team has provided services for about 35,000 machines.

10

More than half of the YFO engineers have at least ten years' experience.

5,000m²

With a total area of 5,000 m², the spare part storage system covers 35 Chinese warehouses and 14 overseas part centers.

Six YFO Commitments



Pre-sales support:

- 1) customized solutions to machine selection
- 2) professional advice on plant layout
- 3) technology solutions before manufacturing

Fast distribution of spare parts

- 1) The same-day delivery rate reaches 97%
- 2) There are more than 7,000 different spare parts in storage with a total value of over RMB 10,000,000.
- 3) The key spare parts are produced by Yizumi or imported and some can be used in the machine made in 2002.
- 4) Every quarter the Chinese headquarters will replenish the spare part warehouses of overseas agents so as to satisfy the needs of customers.

Focus on the improvement of customer satisfaction

- 1) Promote fast response to reduce the machine shutdown risk to a large extent
- 2) Each service center will pay regular return visits to customers and conduct survey on customer satisfaction in order to understand their need promptly.

Preventive maintenance

Onsite inspections are organized regularly and resident service will be provided in key markets and customers' to ensure prompt service.

High-standrad training and practice

- 1) The service inspection and trainings of agents will be organized at least once a year.
- 2) Onsite commissioning and customer training service will be provided for Large machines (1400T and above)

Lifelong service

The lifelong maintenance are guaranteed beside a 13 months' warranty on the whole system



Welcome to subscribe!

Founded in 2009, Craft has been well received by our customers. As a magazine to communicate the core values of Yizumi, Craft focuses on the trend and development of the molding industry and aims to provide valuable information for our customers.

