

Production Expansion

Yizumi's Manufacturing Capacity of Die-casting Machine is to be Doubled to \$214.3 Million with Production Expansion

Leading the New Trend

The Innovative Yizumi High Precision 3C Specialized Die-casting Machine Hit the Market

Yizumi Die Casting:

Transforming to Become an Innovation-driven Solution Provider



YIZUMI伊之密



Enterprise P03

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Enterprise P14

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Case P19

Yizumi supplies one of the largest thixomoulding machines for producing lightweight magnesium alloy components to a German customer

Case P21

Xiongxin Die-Casting:
Make Every Part a Quality Product



YIZUMI_official

Contents

P03 Enterprise

Yizumi Die Casting:
Transforming to become an innovation-
driven solution provider

Leading the New Trend, the Innovative
Yizumi High Precision 3C Specialized Die-
casting Machine Hit the Market

P19 Case

Yizumi supplies one of the
largest thixomoulding machines
for producing lightweight
magnesium alloy components
to a German customer

Xiongxin Die-Casting:
Make Every Part a Quality Product

P27 YFO

YFO-based Instant Prime Service

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Concentrate on process and technology, connecting the future

R&D investment exceeds RMB 260 million in 3 years, transforming to a solution provider

The winter of 2019 is really a bit cold. China's GDP growth rate has fallen to 6%, which is incomparable to the previous era of more than 10%. This means that we are moving from an incremental era to an era of stock.

In the new era, companies have stopped barbaric growth. At this time, they must strive for excellence and dare to innovate.

About to enter its 18th year, Yizumi also enjoyed the incremental dividend of high-speed economic development, but Yizumi is more focused on the future, and began to set strategic goals 5 years ago, committed to becoming a system solution provider creating higher value for customers.

In order to achieve its goal, Yizumi invested 10 million yuan this year to upgrade the plant layout. The overall production capacity and workshop layout of the die-casting plant are planned at an annual output value of 1.5 billion yuan. Why do we need to expand production capacity when the economy is going down? Because we are full of confidence in future development and keep up with the needs of the global market, we hope to build products with advanced technologies and R&D innovations, better production resources, and production management mechanisms in a global layout, so that customers can have more value.

For machinery and equipment manufacturing industry, we know more that the value of customers comes from the upgrading and innovation of product technology, which requires large-scale R&D investment. In the past three years, Yizumi's R&D investment exceeded 260 million yuan, accounting for about half of the company's total net profit in the past three years. This year, it has maintained a relatively high investment. The total investment in the first half of 2019 was 46,762,100 yuan, up 12.72% year on year. Among them, Yizumi has invested over ten million yuan to establish a Product & Process Application Center. This project not only enables us to design better die casting equipment from the perspective of customers, but also provides key process technical support and services to customers worldwide.

Yizumi also continues to expand its technical team, appointing Stefan Fritsche, a senior expert in the European die-casting industry, as the chief strategy officer for die-casting and metal forming. He is responsible for promoting the company's international operations and product development strategy for the die-casting machine division. As of June 30, 2019, the company's technology research and development personnel has reached 578 people, accounting for 21.85% of the total number of staff.

In the cold winter of 2019, Yizumi's actions proved his firm determination: not afraid of challenges, step-by-step implementation of strategic goals, and not stopping the pace of progress due to changes of external environment.

Economic cycle is an objective law, economic downturn will come. However, it will definitely go. During this period, the industry may enter more fierce competition, but Yizumi will continue to progress, continue to increase research and development investment, polish and upgrade products attentively, and drive future development with innovation.

99

Committed to transforming into a total solution provider, Yizumi Die Casting Machine continues to advance its globalization strategy, integrates European technology resources, increases R&D investment, and drives future growth with technology and product innovation.

+ /

Stefan Fritsche

Combustion chamber part of Olympic torch
Yizumi CSO (Die Casting & Metal Forming)



Yizumi Die Casting: Transforming to become an innovation-driven solution provider

In recent years, despite the complex external trade situation, Yizumi has maintained steady growth. As one of Yizumi's main businesses, the die casting machine division is constantly upgrading its products and services, and has been highly recognized by many well-known enterprise customers in the industry. Committed to transforming into a total solution provider, Yizumi Die Casting Machine continues to advance its globalization strategy, integrates European technology resources, increases R&D investment, and drives future growth with technology and product innovation.

In this regard, Yizumi has launched a layout plan. "We will be a very powerful force in the die casting market worldwide," said Stefan Fritsche, the company's CSO for Die Casting & Metal Forming.

Establish Yizumi Product & Process Application Center

As a Chinese machinery and equipment brand, Yizumi has been very active on the world stage in recent years. Yizumi die-casting machine products have been sold to 33 countries and regions in the world, and have been ranked first in the export of Chinese-brand cold chamber die-casting machines for 6 consecutive years. Stefan Fritsche said, "The growth Yizumi has shown since its establishment is very impressive. The good quality of our products and the attractive cost base we have established over the years supports Yizumi's transformation towards a solution provider."

Stefan Fritsche, a European industry expert with 35 years of experience, joined Yizumi in May 2019 as Chief Strategy Officer for die-casting and metal forming. Since joining the

company, he has been working on a number of projects, and the Product & Process Application Center is one of them.

The Product & Process Application Center can provide customers with trial production and assist customers in alloy and mold testing. In the near future, Yizumi will also develop customer training courses in areas such as die casting process optimization and mold design. Both areas can help customers achieve better overall equipment efficiency (OEE) when using Yizumi's equipment. For Yizumi, the facility also has an extraordinary role. Fritsche says: "The Center will allow our engineers to get more familiar and learn about the die casting process from the point of view of our customers. This additional know how we can integrate in further developments of our products and make them ever more effective and productive. At this time we are in discussions with some international die casting companies who are excited that we offer this facility."

It is understood that the establishment of such technological facility is a "standard unit" for leading manufacturers in the European die casting industry. To study and be familiar with the "customer process" is in their DNA. It shows that Yizumi took a very significant step in investing in the application center. "With our goal to become a leader in our field we do need to understand how to further develop our products, services and solutions on our own. So we should continuously build up our knowhow and R&D capabilities in order to fuel our long-term success."



Connecting European technical resources to promote Yizumi's R&D and innovation

The benefit of Product & Process Application Center is an indirect one. The investment return is in know-how buildup of our engineers. Whether the center can run successfully for the long term and maximize its benefits depends on the team of engineers. To this end, Yizumi actively connects European technical resources and introduces process technology experts.

Fritsche said, "Yizumi has the great advantage of having built a strong organization over the last years including - in international perspective - an attractive cost base. So what we are trying to do at this time is to combine top industry know how with the organization / teams at Yizumi. This knowhow is available in the form of experts we can find in Europe and are flexible enough to spend much time working with our teams."

This means Yizumi is creating an environment in which our teams can work

and learn from experts not by reading their articles or by study their work but by actually working side by side with them and so solving problems together. This approach hopefully has a positive effect on the understanding of each other, which helps our engineers to better understand the different points of view of international markets etc. Yizumi aims at creating a culture of innovation which eventually is driven from within the organization and so becomes a sustainable, long-term culture of leading by technical innovation.

Set up a new product management team

With Yizumi's goal to become a global leader in providing die-casting solutions, the company does obviously need to learn and further develop a variety of capabilities and skills. These include our products, marketing our sales approach and various internal processes. The key is to develop, as Fritsche calls it, a Yizumi way of "internal innovation driving mentality".

"It is extremely important that our future products (and services) are attractive to our

customers. Therefore, we have formed a team who will act as a central platform to coordinate new product specification, marketing and sales approach. A central coordination is useful since all the activities need to be aligned to achieve an effective market success."

Yizumi has started R&D work on our next generation die casting machines. Fritsche says: "At this point we have established definitions of different customer segments needing different products and / or different marketing / sales approach. Based on these customer segments we are working now on a product structure defining base machines, functions, options etc. so we decide what to offer to which customer. All this is also a learning process for the die casting team. "



Innovation

Yizumi's goal: to be an international solution provider

Light weighting in Automotive is mainly driven by the CO2 regulation many governments committed to, new energy vehicles are also developing. 5G components are currently a strong growth driver due to the implementation of this new technology in the market.

Going forward, Fritsche believes there will be other growth drivers utilizing the benefits of aluminum and magnesium die-casting. "I started working in our wonderful industry just before the middle of the 80's. I have seen the die casting industry grow continuously over all these years. I strongly believe that the attractiveness of the die casting process and

the benefits of the materials used are an attractive base to further growth of all kind of products. So die casting will remain a key production process in many industries needing high volume manufacturing. "

After years of development, Yizumi has become a company with an international perspective. Its products and solutions have attractive cost advantages. Fritsche said that this advantage, coupled with a technology-driven innovation model, can make Yizumi a leading global die-casting solution provider within five years. In this regard, Fritsche is full of confidence. "It will be however, a lot of hard work, which we will only get done in time if we work together as a disciplined team. We can achieve this target."



Yizumi to establish Product & Process Application Center

Yizumi is committed to becoming a leader in the international die-casting equipment manufacturing industry. In order to create more value for customers, in 2019, Yizumi invested more than RMB10 million to establish its Product & Process Application Center. The center located in the Gaoli production base at the company's headquarters, is not only equipped with a 3000T die-casting machine, but also a full set of automation equipment, and a 5G base station to connect to the industrial Internet platform, which can collect the process data of the die-casting cell in real time.

According to the plan, the Yizumi Product & Process Application Center will be put into operation in 2020, which will connect the world's top-end customers and mold manufacturers to conduct actual production testing, and provide customers with diverse services and training.

Functions of Yizumi Product & Process Application Center:

Test platform: test the actual production performance of the die casting machine; explore different application scenarios with different peripheral devices; provide testing of new technologies, new processes with various alloys and new applications.

Training platform: provide customer training, practical production experience to get more familiar with the operation of the die-casting machine; provide staff training, and nurture comprehensive talents with know-how of metal forming solutions.

Innovation platform: Continuously cooperate with domestic and international advanced mold designers to conduct mold trials, promote the innovation of machine

design and technologies; assist customers to perfect the design of die-casting products and tool design.

Display platform: display the complete die-casting cell, mold trial process and products; display online real-time monitoring of industrial internet platform to realize production management, data visualization.



YIZUMI Product & Process Application Center: help customer reach maximum OEE

—Stefan Fritsche, Yizumi CSO (Die casting & Metal forming)

Happy customers will come back to buy more. All of us have heard this many times, and of course, we all want our customers to come back and buy more. Have you ever asked yourself exactly how we can make our customers happy so that they come back to buy more? In die-casting – as in so many other industries – customers are satisfied if they can achieve an attractive Return on Investment (ROI).

In our high volume industry, the Overall Equipment Effectiveness (OEE) is the magic figure. In simpler terms the higher the number of good, sellable parts our customers fabricate per time with our equipment, the more profitable their investment in YIZUMI solutions becomes. So far so good.

You might ask yourself what that has to do with our investment in our Product & Process Application Center. My answer: Everything.

Let us start with our die casting machine or die casting cell. In our Product & Process Application Center, our engineers are able to operate our equipment under real world conditions and so become more familiar with the “point of view” of our customers. This learning process will allow us to “see” improvement potential and implement smart improvements in the design of our die casting equipment and automation to benefit the customer reaching a maximum OEE.

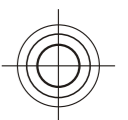
In order to grow into our role of a leading position in the international die casting market, it is essential that we complement our equipment solutions with services supporting our customers to utilize our machines and automation efficiently. Certainly, our standard customer services of trouble shooting, maintenance or operations

trainings are important.

Within the Product & Process Application Center, we will be developing the ability to provide our customers with services including die casting process optimization as well as die designing. Such services will include trainings as well as on-site customer support. Taking advantage of our future services, our customers will become ever more successful through a higher efficiency in utilizing YIZUMI production solutions.

Therefore, the Yizumi Product & Process Application Center is an “enabler” for us to design better, more customer friendly die casting equipment as well as serving as a platform to provide key process support to our valued customers all over the world.

The completion of the Product & Process Application Center for me is the start of many great possibilities of making our customers happy.



Center

Yizumi's Manufacturing Capacity of Die-casting Machine is to be Doubled to \$214.3 Million with Production Expansion

In order to further advance the globalization to meet the needs of customers worldwide, starting in July 2019, Yizumi's 80,000 m² Gaoli factory in Shunde has been converted completely into a manufacturing facility for die-casting machine production. A renovation fund in the amount 1.714 million dollars has also been invested to expand the facility and upgrade the foundation for heavy tonnage machines. By 2020, the overall production capacity of die-casting machine will be doubled to 214.3 million dollars.

To embrace the era of 5G, the facility for heavy-duty die-casting machine is expanded and upgraded

Since this year, the plant layout of Yizumi's die-casting machine manufacturing has been gradually upgraded to expand both workshops for heavy tonnage die-casting machines and small to medium tonnage machines, rearrange warehouse material

flow, and renovate the paint booths for the formation of a streamline production.

"After the adjustment, the heavy tonnage machine workshop was expanded and renovated. The project is conducive to manufacturing precision and product quality improvement. By rationalizing the product line layout, it also shortens the distances of material flow, therefore, improves the productivity and significantly boosts the overall production capacity." said Li Qianhu, the deputy general manager of the business department of Yizumi's die-casting unit.

It is worth mentioning that, with the accelerated construction of 5G base stations worldwide, orders for Yizumi's heavy-duty die-casting machines of 3000-ton and above have increased significantly this year. The existing capacity is unable to meet the market demand. In order to provide support to the 5G development in upcoming years, Yizumi is going to invest in the expansion of the heavy machinery plant, so that the

production capacity for 1000 - 6000 ton heavy-duty die-casting machines will be doubled.

It is understood that the overall production capacity of the die-casting plant and the workshop layout expansion project are planned based on a annual production capacity of 1.5 billion yuan. The investment in the renovation and upgrading of the heavy-duty machinery workshop will reach 1.714 million dollars. "We are confident about the future development of the market. The vision of Yizumi is to become a world-class enterprise in the field. This is not a slogan. It can only be achieved by making pragmatic investment in R&D, upgrading product portfolio, preparation of production resources, and continuous accumulation of experiences." said Li Qianhu.



Operation upgrade to promote the modular assemblies production

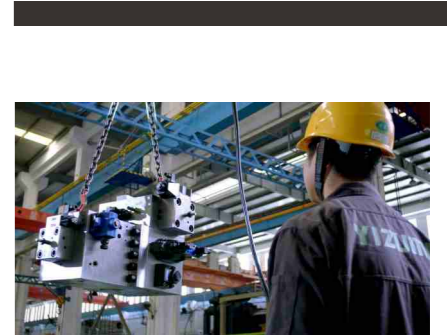
For the future development, in addition to expand the scale of production capacity to meet the demand, Yizumi is also committed to the promotion of operation upgrade by introducing the modular production concept to improve the productivity.

As early as 2016, in the light of the assembly model in the automotive industry, through modularized and standardized product design, Yizumi began to rearrange the die-casting machine production process and divided it into six modular assemblies including clamping, pressurized injection, and machine frame. As explained by Li Qianhu, "One of the characteristics of the die-casting machine market is the demand for special projects. The modular design of the product allows the product to maintain a high level of versatility. Meanwhile, it offers diversified configurations to fulfill different custom requirements." In addition, during the manufacturing process, each independent assembly module of the product can be inspected and debugged in advance to

ensure an early finding of problems in the process. It safeguards the quality of the product while effectively shortening the product manufacturing cycle.

Today, Yizumi has successfully implemented modular assembly and testing in the production of small and medium sized die-casting machine models and achieved prominent results. The overall production yield and stability of new equipment are improved dramatically.

As the effect of modular production emerges, said Li Qianhu, Yizumi will further promote the operation upgrade to streamline its assembly production in order to respond rapidly to market demand, shorten the production cycle, continue to optimize the workshop layout, and pursue for the establishment of a world's leading production management mechanism.



Yizumi's 80,000 m² Gaoli factory in Shunde has been converted completely into a manufacturing facility for die-casting machine production. A renovation has also been invested to expand the facility and upgrade the foundation for heavy tonnage machines. By 2020, the overall production capacity of die-casting machines will be doubled to 214.3 million dollars.

Double

“Industrial Robotics Application and Innovation Sub-Center” of Suzhou Wujiang is to be Located at Yizumi Robotic Automation Technology Co., Ltd.

On October 24, 2019, at the 5th China Suzhou International Robot and Intelligent Manufacturing Conference, Wujiang District held the licensing ceremony for the “Intelligent Manufacturing Collaboration and Innovation Sub-Center”, of which the “Industrial Robotics Application and Innovation Sub-Center” was officially located at Yizumi Robotic Automation Technology (Suzhou) Co., Ltd.

To promote transformation and upgrading, Wujiang establishes the “Intelligent Manufacturing Collaboration and Innovation Sub-center”

With the rapid advance of Internet and digital information technology, intelligent manufacturing is experiencing an exponential growth around the world. Thanks to the support from the “Intelligent Manufacturing Development Plan (2016-2020)” and other industrial policies, the intelligent manufacturing in China is developing quickly, providing a good opportunity for the upgrading of traditional manufacturing industries. The acceleration of intelligentization in the equipment manufacturing industry not only can establish a sound intelligent equipment manufacturing system, but also is an important measure to implement the strategy of in-depth integration of the industrial automation and information.

With the development of intelligent manufacturing, Wujiang District wants to further improve the ecological environment of the intelligent manufacturing industry by establishing the “Intelligent Manufacturing Collaboration and Innovation Sub-center”.



The first batch of intelligent manufacturing collaboration and innovation sub-centers will be piloted in Yizumi Robotic Automation Technology, Mingzhi Technology, and Bozhon Precision Industry Technology. Among them, the “Industrial Robotics Application and Innovation Sub-Center” led by Yizumi Robotic Automation Technology will be completed through collaboration with a number of renowned domestic universities and institutions, focusing primarily on the intelligentization of industrial robots and their applications in smart manufacturing to promote the transformation and upgrading of production-oriented enterprises.

Yizumi Robotics will Lead and Secure the Overall Establishment of the Platform

As an important carrier for Wujiang’s efforts of developing intelligent manufacturing industries, the fact that Yizumi Robotics is chosen by the district to lead the “Intelligent Manufacturing Collaboration and Innovation Sub-center—Industrial Robotics Application and Innovation Sub-Center” indicates the confidence of Wujiang

District government in Yizumi Robotic Automation Technology.

Being a subsidiary held by the listed company, Guangdong Yizumi Precision Machinery Co., Ltd., Yizumi Robotic Automation Technology has continuously made achievements in technological innovation and upgrading by relying on its competent technical teams and years of practice and experience. It has received certifications such as the ISO-9001 Certified Factory, the High-tech Enterprise in Jiangsu Province, the First Leading Intelligent Manufacturing Service Organization in Jiangsu Province, Suzhou Enterprise Technology Center, the R&D Center for Robotic Automation System Integration Engineering Technology, etc.

It is now known to be one of the most advanced system integrators in the die-casting robotic automation field. It is believed that the innovation sub-center led by Yizumi Robotics will ensure the long-term platform development in all aspects.



The Center will be Ready by 2020 with the Focus on Talent Development and Innovative Applications

The “Industrial Robotics Application and Innovation Sub-Center” is to be setup with the primary focus on the intelligentization of industrial robots and their applications in smart manufacturing to promote the transformation and upgrading of production-oriented enterprises while enhancing the innovation ability of industrial robot applications and cultivation of talents.

At present, the “Industrial Robotics Application and Innovation Sub-Center” residing in Yizumi, Suzhou has been planned and is under construction. The center will consist of an industrial robotic application exhibition center, an application training center, an application R&D center, and an

application industrialization center. Targeting to fulfill the various needs of the society, the innovation sub-center will open to public with application demonstration and exhibition as well as professional training in robotic applications and operation, in which the application exhibition center and application training center are expected to operate in the first half of 2020.

In the next two years, with the smart applications of collaborative robot system, intelligentization of industrial robots, and industrial robotic automation system in the high-pressure die-casting field identified as the three major directions for the research and development, the “Industrial Robotics Application and Innovation Sub-Center” aims to make breakthrough in the industrial robot application scenarios and their practical utility through relevant technical researches. It will also actively push forward the establishment of relevant industry

standards regarding the application of industrial robots, so as to promote the patenting, industrialization and standardization of technologies.



Create an Ecosphere for Intelligent Manufacturing through Collaboration and Innovation

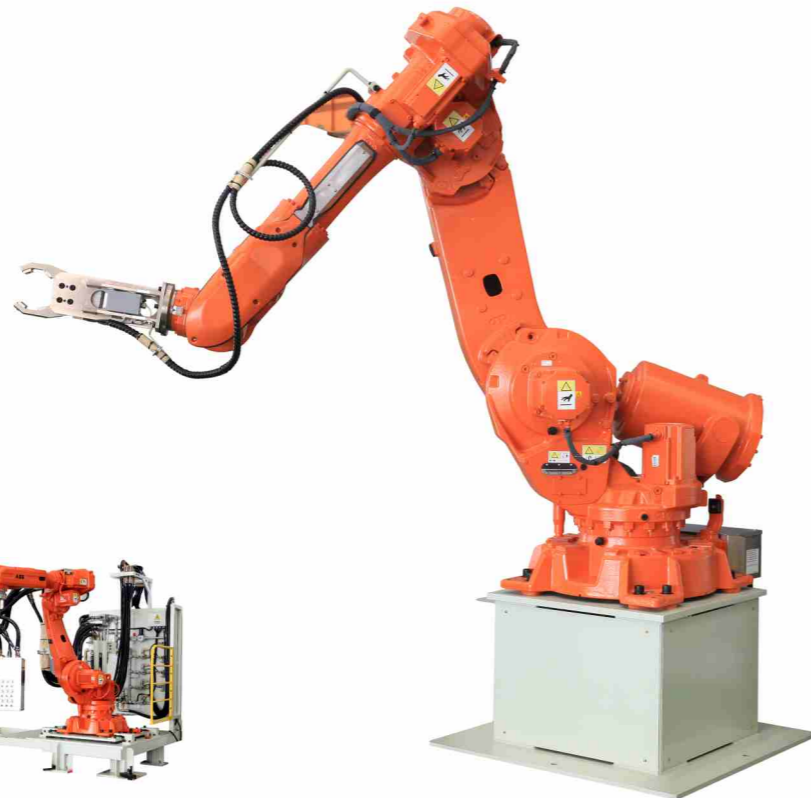
As a system solution provider, Yizumi Robotic Automation Technology has always attached great importance to technological innovation. Through continuous investment in the R&D efforts, the company has made significant achievements in developing new products, improving quality of customer products, and reducing customer production costs. The domiciliation of Wujiang' s "Intelligent Manufacturing Collaboration and Innovation Sub-center—Industrial Robotics Application and Innovation Sub-Center" in Yizumi Robotic Automation Technology is not only the affirmation by Wujiang District government but also the results of Yizumi Robotics' continuous efforts in technology development and innovation under the concept of "Synchronizing the Development of China' s Equipment with the Pace of the World" .

Oriented toward the field application of industrial robots, the innovation sub-center will be led by Yizumi Robotics and in collaboration with various universities and other major innovation organizations to jointly promote the activities of innovative industrial robot applications. In the meantime, the innovation sub-center will actively create the conditions to establish an academic environment for hosting relative activities on a regular basis, invite experts

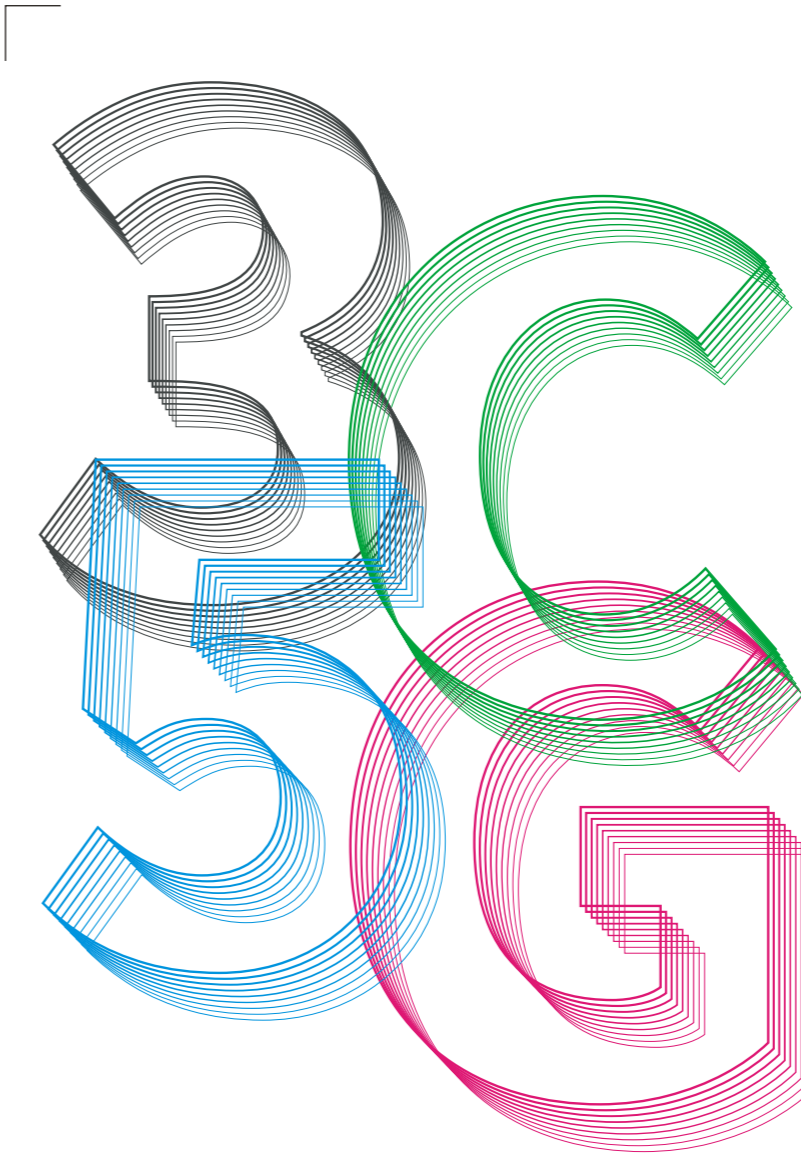
and scholars from universities and research institutes and industry experts from the enterprises to carry out thematic exchanges, and promote the common progress of both upstream and downstream enterprises in the industrial robot application industry chain.

Referring to the future operation of the application and innovation center, Dr. Yang Yongmin, Chief Engineer of Yizumi Robotic Automation Technology said that Yizumi Robotics will actively integrate the resources in the industry chain and push forward the innovations in technology, methodology, market, resource utilization as well as innovations regarding the system, mechanism, and operating model of the organization. "We will adhere to the mission and vision of the innovation center, aim to cultivate industrial talents, make breakthroughs in the industrial application solutions and have them industrialized. We will strive to explore a technological innovation system that is market demand oriented, led by enterprises, and has its base built on the deep integration of talent cultivat' establish applicati

Robot



Leading the New Trend, the Innovative Yizumi High Precision 3C Specialized Die-casting Machine Hit the Market



3C electronic products, 5G mobile phone in particular, are setting off a new round of manufacturing demand in the direction of "light, thin, and precise" .

Focusing on the upcoming demand for 3C electronic products and support to the large-scale commercialization of 5G mobile phones, Yizumi introduced an iterative model - high-precision 3C specialized die casting machine that can be adapted to more sophisticated, thin-walled aluminum alloy die castings, such as 4G/5G mobile phone mid-board, tablet mid-board and housing for other digital electronics.

Since the introduction, Yizumi' s high precision 3C specialized machine has been put into production in a number of customers' facilities. The unprecedented performance of the equipment is well received by customers. The production yield of the 5G mobile phone mid-board exceeds 98%.

Injection acceleration $\geq 60G$

Precision thin-walled product can easily get blowholes if the cavity filling is low. To tackle this application pain point, Yizumi's high precision 3C specialized machine raises the injection acceleration to $\geq 60G$ to ensure the filling speed of molten metal and allow the product in the cavity to have full discharge of air to prevent blowhole defects.

Max. air shot speed $\geq 12m/s$

In the injection process, the molten metal will cool down easily after entering the mold. At this time, the injection speed must be fast enough to fill the cavity quickly to avoid cold shut due to rapid cooling of thin-walled product in the mold.

The maximum injection speed of Yizumi's high precision 3C specialized machine is $\geq 12m/s$, an increase of 50% compared to the previous models, ensuring to fill the cavity quickly.

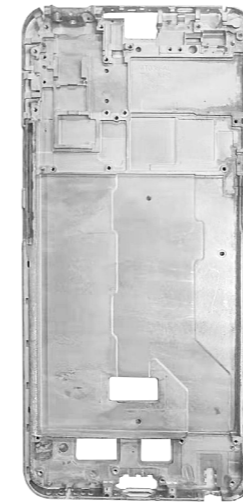
Adaptable to products of different sizes

In order to improve the cavity filling, Yizumi's high-precision 3C specialized machine offers the standard long barrel model and the optional short barrel model. Customers may choose the right barrel according to the size, area of their thin-walled product.

Ensure the precision of the product thickness

While the innovation driven 3C products will have new models rolled out every year, the requirements for the product process and quality continuously rise. For example, the thickness tolerance of the 5G mobile phone mid-board has to stay within $\pm 0.03mm$. In order to ensure the precision of products, Yizumi's high precision 3C specialized machine optimizes the clamping unit to improve the rigidity and stability of the mold

closing, allowing the unit to have better force application while reducing molding flash. According to a customer's actual production test, the production yield of 5G mobile phone mid-board made by Yizumi's high-precision 3C special machine exceeds 98%.

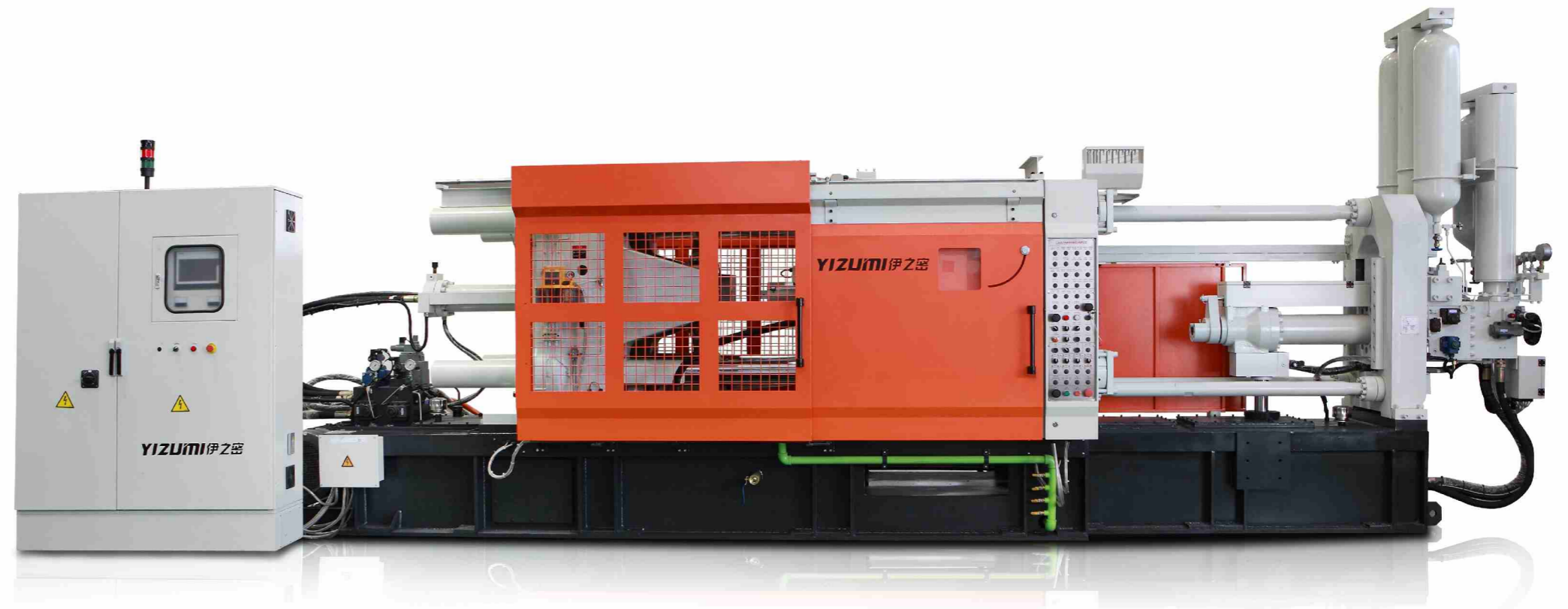


■ 5G mobile phone middle plate

Customer reference:

“The mobile phone industry updates quickly. We have to see the big picture to ensure that we will still maintain the same competitive advantage in the future. Yizumi's 3C specialized die-casting machine offers a reliable and stable performance. It can meet the ever-increasing quality requirements for the mobile phone products. We have purchased 16 machines this year and successfully started volume production of 5G mobile phone mid-board. We look forward to working closely with Yizumi in the future to develop new product solutions and stay responsive to market demand.”

——Jianguo Deng, General Manager of Dongguan Maowei Electronics Co., Ltd.



Industrial Internet Arrives in the Right Time as the Capacity Multiplier

At present, the manufacturing industry is experiencing more and more fierce competition, coupled with the uncertainty of the external environment. Under the pressure of reduced foreign trade, enterprises urgently need to break through by allowing the existing assets to play a greater role to improve efficiency and generate higher earnings.

In this regard, the use of technical means such as the Industrial Internet, digitization, informationization, and Industrial 4.0 as the new foothold for expanding the capacity of the enterprises has become the novel trend of the industry. However, promoting the construction of informationization using traditional architecture will face many obstacles including high investment costs, poor network facilities, weak technical team, difficult to upgrade operations and maintenance, these factors hinder the transformation and upgrade of the enterprises.

The Industrial Internet platform launched by Yizumi in 2018 has effectively solved the above pain points by adopting the new generation of ICT technologies such as cloud computing, big data, and IoT, providing customers with professional and cost-effective digital solutions. With a focus on the production management in the injection molding industry, the platform helps customers to solve problems in production processing related to production monitoring, efficiency statistics, fault handling, and process analysis and improve their productivity and product quality. It has now been used by nearly 100 customers, serving thousands of devices.

Achieve Digitization and Visualization of Production through CMS System

CMS (Condition Monitor System) is one of the most basic functions in the architecture

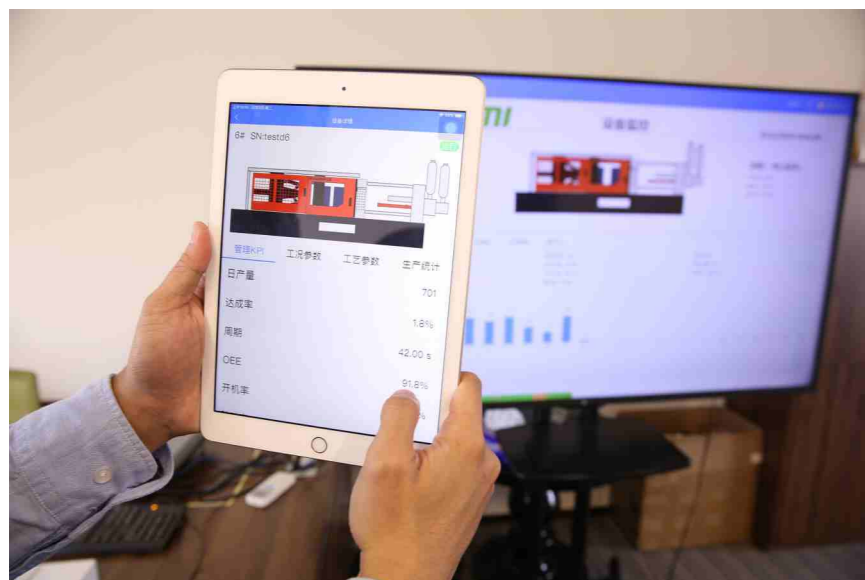
of Yizumi's Industrial Internet platform. When devices are connected to the network, users are able to monitor the devices anywhere and anytime via mobile app or PC, to view machine utilization ratio, uptime, product qualification ratio, production cycle, yield, and other data in addition to information used in statistical analysis of equipment overall efficiency and output. In case of equipment failure, users will also receive text message or WeChat prompt in a timely manner.

For enterprises, the greatest value of monitoring lies in the digitization and visualization of production.

“Our analysis reveals that the comprehensive utilization ratio of an enterprise's production equipment rarely exceeds 60%. However, many employers may not be aware of these data, or even make additional investment in equipment blindly. The CMS can help them solve the digitization issues.” said Niu Jianwen, Director of Intelligent Connection Department of Yizumi.

Take 100 machines as an example, if the utilization ratio increases from 60% to 70%, it means an increase in the production capacity of 10 machines, giving full play to the efficiency of the existing machines. Under the same conditions of fixed assets and energy consumption, corporate earnings will be significantly improved.

Digitization can help the managers to collect production data for decision making while visualization can help to find and solve problems in a timely manner.



“For a workshop with 100 machines, it takes a manager 2 hours to complete one round of inspection. But the manager cannot spend the time at the scene every day. CMS can make the operating status at workshop visible, allowing the manager to coordinate resources and resume production quickly.”

More specifically, users only need to add IOT hardware in order to implement the system with features on-demand. There is no requirement for additional investment in fixed assets which greatly reduces the technical threshold as well as building and operation costs for customers to achieve intelligent production.

“CMS is a standardized information management system that can fit various industrial application scenarios. We want to provide our customers with the best cost-effective solutions.”

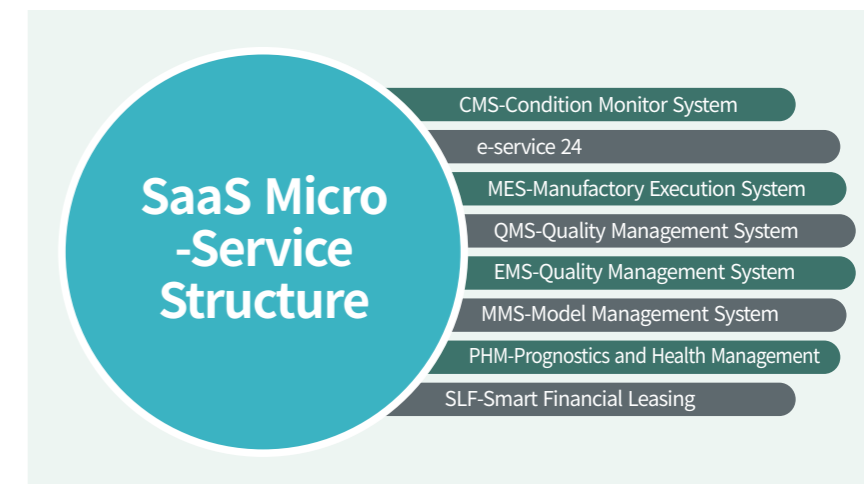
Customized MES System

A capacity multiplier should not only help the machines to “run” better, but also helps PO management, cost control, and quality improvement.

“The core of an enterprise is QDCP”, said Niu Jianwen. QDCP stands for quality, delivery, cost, and productivity. In order to achieve that, you need to establish a MES system to optimize production order management, production operation management, quality management, data collection and analysis, as well as process management.

Yizumi has started to provide customers with customized MES system since 2019. “Different enterprises have different needs for MES. Even if they are in the same industry, they have different focuses which lead to different MES functionality.”

For example, the characteristics of high-



volume production determine that customers in 3C industry weigh productivity management heavily. Small household appliance industry attaches great importance to mold management because of the diversity of their products, while customers in the automotive industry pay more attention to the quality management and traceability.

Designed specially for injection molding and aluminum die-casting industries, Yizumi's MES system adopts new technologies such as cloud computing and IoT to provide customers with the best cost-effective solutions.

To provide SaaS Software Services

In the future, Yizumi's Industrial Internet platform will further extend its capacity around the customer's production management scenario and provide more SaaS (Software-as-a-Service) services, including intelligent service (e-Service), quality management service (QMS), energy management service (EMS), mold management service (MMS), prognostics & health management (PHM), smart financial leasing (SFL) in addition to CMS and MES software. “Customers can simply choose the software services on the platform

according to their needs without making a large sum of investment to establish the information system.”

Diversified software services can further enhance the digital and intelligent level of customers' production management, and thus make production management more scientific, efficient and simple. When there are many factories gathering on this platform and forming an ecological community, capacity sharing, information sharing, and collaborative manufacturing within the industry become possible.

“Enterprises can coordinate their upstream and downstream materials, spare parts, and production equipment according to their own production capacity and production scheduling to organize the production and manufacturing, thus drive the resource allocation efficiency and improve the intellectual level of the entire industry through technologies such as the application of the IoT, cloud computing, and big data.”

Industrial

Yizumi supplies one of the largest thixomoulding machines for producing lightweight magnesium alloy components to a German customer

After the successful development of the MGII thixomoulding machine series with a clamping force of 650 ton (6,500 kN) in 2015, Yizumi has made another breakthrough in the production of large thixomoulded magnesium alloy components.

Together, the engineers from Yizumi China and Yizumi Germany have developed a thixomoulding machine with a clamping force of 1,250 ton (12,500 kN) making it the world's largest thixomoulding machine to date.

The machine was built in early May 2019 at castwerk in Frankenberg (Germany) and is in operation.

castwerk GmbH & Co. KG in Frankenberg (Germany) belongs to the global Hettich Group and produces components with magnesium pressure die-casting and magnesium thixomoulding for the automotive and e-mobility sectors.

As of the end of 2019, the new 1,250 ton thixomoulding machine will be used as standard for the chassis for the new e-scooters, which will expand the e-mobility market in Europe over the next few years.



HETTICH castwerk products



Chassis for electric scooter

Measurements: approx. 550x140x153mm
Weight: approx. 1.2kg
Wall thickness: up to approx. 4mm



Porsche Panamera instrument panels

Measurements: approx. 1100x300x200mm
Weight: approx. 1.9kg
Wall thickness: up to approx. 3mm



Daimler Benz gear box push rod housing

Measurements: approx. 240x110x50mm
Weight: approx. 330g
Wall thickness: up to approx. 2.5mm



Porsche Macan hinge for arm rests

Measurements: approx. 300x170x90mm
Weight: approx. 390g
Wall thickness: up to approx. 6mm

It was crucial for castwerk's end customer and project management that the component for the innovative E-scooter is very light, yet offers the highest level of safety and driving stability. For this purpose, the thixomoulding machine must be able to guarantee process-reliable manufacturing. The first pre-series productions show that the machine meets these requirements.

In recent years, castwerk has been involved in the production of large magnesium alloy components for the automobile and urban mobility sectors. Due to the small clamping force and injection volume, the thixomoulding technology and hot-chamber die casting machines available in the past were barely able to gain a place in these industrial sectors on a large scale.

With the existing thixomolding machines having a maximum clamping force of 650 ton (6,500 kN) and a maximum shot weight of 1.5 kg, only a few products could be produced that met the requirements of the automotive and urban mobility sectors.

Therefore, castwerk decided in late 2017, together with Yizumi, to discuss a thixomolding machine with higher performance parameters and then ordered a new thixomoulding machine with a clamping force of 1250 ton (12,500 kN) and a shot weight of up to 2.8kg.

In December 2018, the 1,250 ton thixomolding machine underwent its first tests with the new hot runner technology integrated in the tool at the YIZUMI Wusha plant in Shunde.

At the end of 2018, a team from castwerk Germany observed the machine's test run. The success of the first test impressed the castwerk employees.

From tool testing to customer installation and commissioning, Yizumi sent a team of engineers to ensure comprehensive monitoring throughout the process. The technical manager, Siegfried Schneider, said: "We receive a lot of requests for large cast parts. Customer demand continues to grow. The Yizumi machine will allow us to meet the needs of our customers".

As well as the chassis for the new E-Scooter, castwerk also designs large driver cockpits, so-called display composite elements, for vehicles.

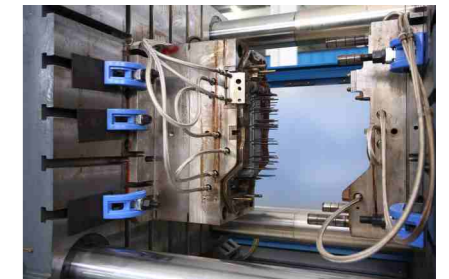
Here, too, castwerk has decided in favour of thixomoulding technology and is in talks with its partner Yizumi about the next big step in thixomoulding technology: the construction of a 2,000 ton thixomolding machine.

Thixomoulding machines are common for the production of thin and lightweight 3C products such as mobile phone base boards, protective covers for PC housing, etc.

Yizumi masters the two core technologies in thixomoulding, high-speed injection control for injection speeds of up to 5,000mm/sec and the production of injection units for processing magnesium alloys. As part of the developments, a large number of inventions and new patents were created. Yizumi's successful development of a thixomoulding

machine with a clamping force of 1,250 ton (12,500 kN) and a shot weight of up to 2.8 kg sets a new standard in the sector.

With the rapid growth in the market for electric cars and new electric mobility vehicles in the urban mobility sector, Yizumi is certain that the new thixomoulding machine for lightweight components will help to break new ground in many industries.



MG

Xiongxin Die-Casting: Make Every Part a Quality Product

In-depth technical collaboration with Yizumi for ten years

As a well-recognized technology expert in the industry, Wang Hongfei's experience in the die-casting industry reflects the growth of many people in this industry in China. In 1980, he was engaged in the industry at the age of 16 as an apprentice. Learning by doing, he later became one of the factory's lead worker in die-casting process. In 2001, with nearly 20 years of accumulated knowledge and experience, he founded the Xiongxin Die-Casting Co., Ltd. in Foshan ("Xiongxin Die-Casting"). Today, while serving as the general manager of Xiongxin Die-Casting, Hongfei Wang is also a member of National Metal Thermoforming Technology Sub-committee (TC186/SC2), and has participated in the formulation of relevant technical standards in the die casting industry many times.

Following his passion for technologies, Hongfei Wang always adheres to the business philosophy of "To be the best rather than the largest" and requires the Xiongxin Die-cast to focus on sophisticated die casting and pursue for excellence. Through a decade of efforts, Xiongxin Die-casting has become a "casting and moulding integrated manufacturer" that meets the international standard. End users include Tesla, Toyota, Honda, Nissan, Mitsubishi, BAIC, TOTO, Rubbermaid, Vatti, and other enterprises.

"Make difficult products"

How to define difficult products? In the context of our company's size, we will take some challenges in the field where others are reluctant to touch. Some orders make large

factories feel somewhat difficult but the quantities are too small for them to take. Meanwhile, their technical requirements are too high for small factories to handle. That is the room to bring our abilities into full play," said Wang.

With a clear positioning, Xiongxin Die-casting places its focus on high air tightness and high strength products where laminar flow and mold filling die-casting technologies are employed to meet the requirements of high-strength thick-walled parts and T6 heat treatment.

In addition to the die-casting manufacturing process, Xiongxin Die-casting also challenges products with complex designs. "Die design is critical. A product may have multiple ways to make and achieve good results. However, some products may be unconventional and don't have many options. In such case, the planning of die design becomes very important." Taking the automotive transmission torque converter stator as an example, it has only the center gate with dynamic balance requirement for the 15 vanes. "Center feed is the most rational solution. Other approaches will compromise the result of the die-casting or the service life of the mold," said Wang. In the context of fully satisfying the requirements of formation and scaled production, the product design of this stator won the best casting gold award at 2015 International (Dongguan) Metal Casting Show (IMCS).

The quality product positioning has allowed Xiongxin Die-casting to maintain a stable business with products covering multiple

industries including automotive, home appliances, industrial and medical applications. The die-casting production capacity has reached 3500 tons.



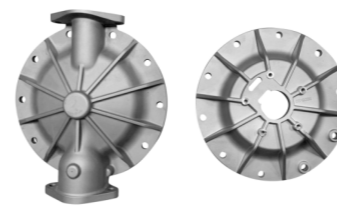
■ EV A/C compressor housing



■ Automotive transmission torque converter stator



■ LED ceiling lamp body



■ Diaphragm pump



■ Combustion chamber part of Olympic torch

A product yield over 99% for high airtight compressor

With in-depth knowledge of die-casting process, Hongfei Wang is also very familiar with the design of die-casting machines. That is where his cooperation with Yizumi started.

"When we purchased the first Yizumi 500-ton die-casting machine in 2009, we put forward a lot of special performance requirements, including real-time feedback and electric valves. Yizumi fulfilled them all. The machine works very well. It has now been almost 10 years and is still running."

The collaboration between the two has continued since then. While Wang constantly brings up innovative functional requirements for the machines, he has purchased from Yizumi the 500T, 650T, 800T die-casting machines and the automation systems for the production of transmission stator, diaphragm pump components, super-low-speed die-casting products, combustion chamber parts for Olympic torch, etc. Among them, the EV A/C compressor housing made by Yizumi's 650T die-casting machine has achieved a production yield over 99%.

"This is a high airtight product. Our internal testing indicates that the defect rate has been below 1% for an extended period of time" said Wang. Currently, all A/C compressor housings at Xiongxin Die-casting are manufactured using Yizumi's 650T machine. The stable injection performance of the machine contributes greatly to the quality of this high air-tight product.

Plan for large die casting products

The production strategy of making technically challenging products allows Xiongxin Die-casting to maintain a steady growth even in the economic downturn this year. However, with the transformation of the automotive industry, the competition for small and medium-sized die casting components has been increasing. Products that are suitable for small and medium-sized machines to make are decreasing. The industry is in favor of larger die casting parts. In the meantime, the requirements for automotive die castings are constantly rising. Wang admitted that "the quotes received and projects landed in the recent two year reveal that the conventional parts originally made by gravity casting and low-pressure casting are turning to die casting industry. In addition, automakers update very fast every year, requiring manufacturers to further reduce costs."

Geared towards the future development trend of the automotive industry, Wang said that Xiongxin Die-casting will continue to work with Yizumi and plan on deployment of large die-casting equipment for the production of EV components with larger projection area.



Customer reference:

["The relationship between Xiongxin and Yizumi is not a simple supply and demand relationship. The technical teams of both sides are very familiar with each other and often have in-depth communications. If there is a problem in the communication process, we will work it out together. After nearly 10 years of cooperation, there is no communication barriers between the two of us in terms of technology and after-sales service. Especially in services, Yizumi is very timely and supportive. In the future, Xiongxin Die-casting will continue working with Yizumi closely."](#)

[—Wang Hongfei, Founder & General Manager of Xiongxin Die-Casting Co., Ltd](#)

Dongguan Maowei Electronics: Leading the 5G Era with Production Automation of Mobile Phone Midboard



With the 5G mobile phones appear on the market sporadically, the 5G is finally on the horizon. As the industrial projection indicates, the scale-up development for 5G terminal devices will arrive in the second half of 2020. Mobile phones and broad range of end-products are expected to experience an explosive growth. To get ready for the large-scale production of 5G terminals, the peripheral manufacturers have started to make the move to build automated production lines in 2019.

In May of 2019, Dongguan Maowei Electronics Co., Ltd. purchased from Yizumi more than ten sets of DM300H die-casting machine with 3 peripheral robots for the production of 4G and 5G midboards. As a company specialized in mobile phone midboard die-casting products, Maowei Electronics has a full range of proven process from product development, mold making, die-casting, and CNC machining. Now, Maowei Electronics has reached strategic cooperation agreement with VIVO, OPPO, and other well-known domestic brands and is ready for mass production following brand owners' 5G mobile phone launch schedule.

To meet the production needs for 5G mobile phone midboard, the technical team of Yizumi Robot & Automation Technology (Suzhou) Co., Ltd. did in-depth study of the product technology and production process,

continuously optimized the associated programs to improve the level of automation and productivity, helping Maowei Electronics to take the lead in the 5G era.

Production automation with automated 3 servo robots

According to Maowei Electronics' product requirement, Yizumi provided the solution with 3 servo robots (ladler, sprayer, extractor) for fully automated production. Compared to manual operation, the fully automatic production plan is more stable with higher yield and productivity which saves investment in labor cost.

In the automated production process of mobile phone midboard, spraying is one of the important steps. Too much spray will darken or leave watermark on the product surface; on the other hand, insufficient spray will make it hard to release the product from the mold and cause damage mark to the product.

More crucially, for the ultra thin-walled 5G mobile phone midboard with a thickness of about 0.3mm, the correct amount of spray is essential to ensure the product yield. The sprayer must be controlled individually with the spray volume regulated in a wide range. The nozzle should spray vertically onto the mold surface and cover the entire product; in

term of the time duration of the spraying, spray in a sweeping motion without stopping on flat surface where there is no ejector; when it has to make a stop around places that have ejectors, edge grooves or bumps, do not stay for too long. In general, it should be kept around 1.2S.



In comparison with ordinary spray robots that can flexibly complete spraying in all directions, servo sprayer is better at dealing with complex coating process over this type of flat membrane components. Specially designed nozzle can handle all kinds of dead ends in any direction to achieve accurate and efficient spray effect but also maintain the operation stability for an extended period of time.

Through six months of use, the performance of the servo sprayer is well recognized by Maowei Electronics and named as the "special sprayer for mobile phone midboard".

Fulfill customer's demand to maximize productivity

Facing the upcoming 5G mobile phone scale-up development, Maowei Electronics is pursuing higher production efficiency and yield for a leading position in the competition of 5G mobile phone commercialization. For this purpose, the technical team from Yizumi Robotics successfully raises the original working pace of the 3 servo robots by more than 20% through computation and optimization, while maintaining a production yield higher than 99%.

More efficient and stable equipment ensures a higher output. Relying on its expertise in equipment integration, Yizumi continues to deliver high precision equipment to the customers, support customers' process parameters, improve the productivity of die-casting products, and strive to achieve a fully automated intelligent manufacturing.



Phone

	Equipped with Yizumi 3 servo robots automated production	Ordinary manual production
Stability	Good stability	Poor
Pace	Reliable. Average 15.4 s/cycle	Poor reliability. Vulnerable to human factors
Product yield	High. High product uniformity	Not high. Vulnerable to human factors
Staffing	1/5	1/1
Safety	High safety factor	Existence of safety hazard

Zhongqi Die Casting: Focus on the field of electric bicycle

E L E C T R I C

In recent years, two-wheeled electric bicycles have gradually replaced motorcycles, becoming daily travel vehicles for most people, and are widely used in commuting or short-distance travel. According to the data of CCA, in 2018 the annual output of domestic two-wheel electric vehicles exceeded 30 million, and the market demand continues to grow.

Focusing on the development momentum of two-wheeled electric vehicles, Taizhou Zhongqi Die Casting Co., Ltd. (hereinafter referred to as "Zhongqi Die Casting"), which was established in 2000, has gradually shifted its business from motorcycles and scooters to two-wheel electric vehicles to design and manufacture molds and various aluminum alloy castings. There are hundreds of varieties of products including rear shelf, rear fork, pedal, connecting plate, single support and other aluminum alloy parts. Customers are mainly domestic well-known electric vehicle enterprises, including Aima, Yadea, Sunra, Luyuan, and NIU etc., account for 25% of the aluminum alloy parts market for electric two-wheelers in China. It can be said that the company is an invisible champion in the field of aluminum alloy parts for electric two-wheelers.

Rapid development, winning by quality

How can Zhongqi Die Casting be recognized by well-known enterprises in the industry? General Manager Liang Yongxing concluded that the company's core strength lies in its

variety of products, high quality and strong development capabilities.

First of all, there are hundreds of varieties of Zhongqi die-casting, covering almost all aluminum alloy parts of two-wheel electric vehicles, and insisting on independent research and development, tightly controlling product quality from mold design, and introducing advanced processing and manufacturing equipment, investing more than CNY20 million (approx. USD2.9 million). The company also has a R&D team of more than 20 personnel, and can quickly respond to customer requirements, develop more than 100 sets of molds per year.

Taking the newly developed aluminum alloy frame of electric vehicles as an example, Zhongqi Die Casting actively participates in

the pre-research of new models of customers, and newly designs the parts that have been welded by steel, develops the molds, and integrally forms them by die casting. This not only meets the demand for performance, but also reduces part weight.

In order to ensure the quality of the products, Zhongqi Die Casting chose to cooperate with Yizumi, and successively purchased 15 sets of Yizumi H high end series die casting machines (300 tons - 1250 tons). Liang Yongxing said that the product needs to be drilled later, and the low compactness of the product will lead to scrapping of the product. Yizumi die casting machines have been stable and reliable for many years, and the product has no porosity and sand hole, and the pass rate is 99%.

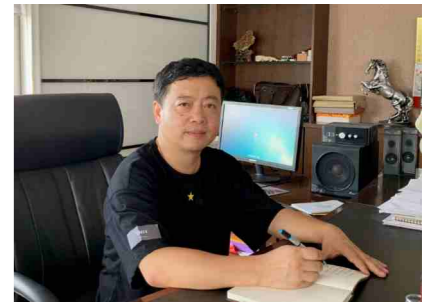


Invest in automated production lines to increase efficiency

After years of development, electric two-wheelers have entered the development stage of intelligent, lightweight and high-end. With the implementation of the new national standard in 2019, the electric vehicle industry is expected to usher in a new round of reshuffle.

In order to maintain the competitiveness of the industry in future development, this year, Zhongqi Die Casting increased investment, established a new plant measuring 20,000 square meters, and invested in a new die-casting automatic production line, which not only were equipped with multiple sets of Yizumi die-casting machines, but also automated part removal, spray robots, automatic molten aluminum transportation line, and product conveyor, etc. In this way, only one worker is needed to operate every 1 to 2 die casting machines, which greatly saves labor costs, and the overall production efficiency is expected to increase by more than 20%.

Liang Yongxing believes that in the new round of competition, in addition to maintaining stable quality and improving production efficiency through automation, enterprises can also achieve better cost advantages. In addition, Zhongqi Die Casting has gradually branches into new areas, such as automobiles, shared bicycles, 5G base stations, research and development of new products, and fostering new growth sectors. The company's new plant was officially put into operation in July, and the annual output value is expected to reach 160 million Yuan (approx. 23 million USD).



Customer Reference:

"Yizumi die casting machines have been stable and reliable for many years, and the product has no porosity and sand hole, and the pass rate is 99%."

—Liang Yongxing, General Manager of Taizhou Zhongqi Die Casting Co., Ltd.]



■ Electric bicycle rear fork



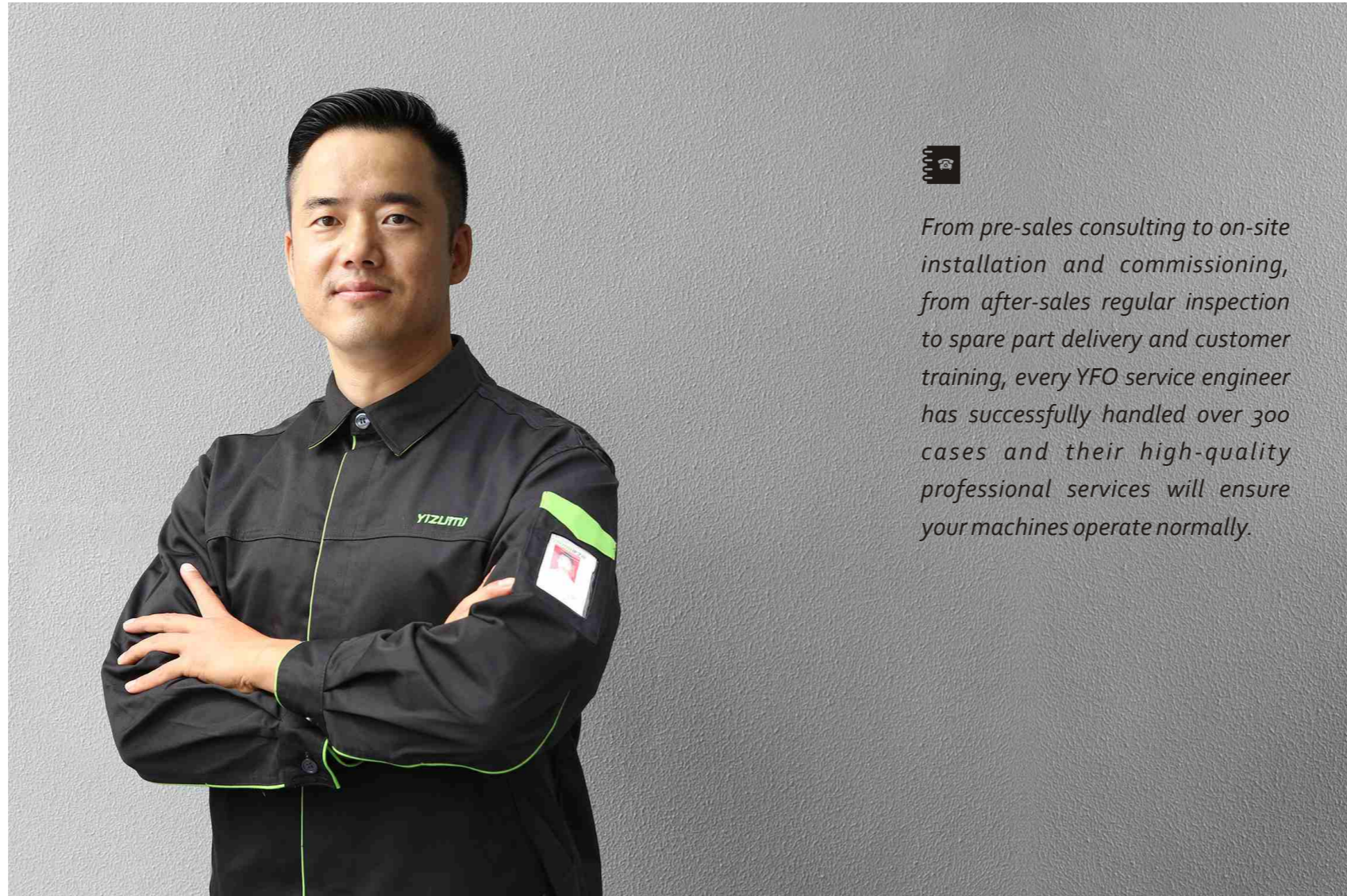
■ Electric bicycle frame



YFO-based Instant Prime Service

Timely, Professional, Customer First

YFO (Yizumi Factory Outlet) model ensures high response speed and controllability of the service and it is also Yizumi's new global service strategy for the future. As regards the service concept, we not only ensure the safety of customer's production activity, but also endeavor to fulfill the ultimate goal of reducing the risk of downtime through every detail and improving customer's productivity.



From pre-sales consulting to on-site installation and commissioning, from after-sales regular inspection to spare part delivery and customer training, every YFO service engineer has successfully handled over 300 cases and their high-quality professional services will ensure your machines operate normally.

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

- China** A total of 35 spare part centers and maintenance part warehouses
- Abroad** Spare part warehouses in 15 overseas countries



YFO one-stop spare part service solution Save your time, worry and money

- Shorter waiting time**
Unified service channel, hour-level spare part delivery service available
- Cost-effective**
Key spare parts are purchased from manufacturers, ensuring the price transparency and economy.
- Some spare parts imported**
More durable and applicable.



365/24	72	8,000 +	10+	5,000+m²
24-hour hotline available for 365 days, nearly 200 maintenance experts ready to respond to your needs.	YFO service network in 35 Chinese cities and 37 overseas countries provide better access to service.	So far the service team has provided YFO service support for over 8,000 machines to ensure they function normally.	Over half of YFO service engineers have over 10 years of professional experience.	Powerful spare part warehouse system covers warehouses in 35 Chinese cities and 15 overseas spare part centers, total warehousing area up to 5,000m ² .

Eight YFO Commitments

Focus on machines; greater focus on customer experiences

8 specialized services allowing you to have a better customer experience



Presales Consultancy & Technical Support

Delivering exhaustive die casting machines and auxiliary equipment selection solutions, professional configuration and optimization solutions of its manufacturing technologies.



Professional Technical Training

Exquisitely designed, nationwide standardized courseware menu selection system, the national instructing team will personally visit the sites to customize the trainings.



Professional Parts Supply

5 warehouse agencies and 2 service centers with warehouse inventories overseas, spanning across Asia, America and Europe, achieving a 24-hour turnaround of common parts delivery.



PLC Remote Service Mode

Remote process support within the whole world. It can rapidly resolve the customized requirements for the customer processes.



GPS Vehicle Monitoring System

Over 50 service vehicles with real-time online monitoring control nationwide. Timely nearby dispatch services ensuring its response speed.



e-service 24-hr Online Services

One button to report any repairs with the mobile apps. Swiftly search for malfunctions, building the mobile after-sales experiences for the customers.



Technology Service Center

The service center, which is directly under the management of Yizumi's headquarters, the service engineers deliver timely and effective services. Meanwhile, there are 2 technology service centers in India and Vietnam.



Permanent Engineers' Services

In view of the key markets already developed, Yizumi will dispatch the Chinese engineers to reside at the markets permanently, providing timely and highly efficient services to the customers.

YIZUMI e-service

Delivering a real-time service system for its clients

Through YIZUMI e-service, you can have a full-day, online support, mobile and rapid remote repair and maintenance as well. Regardless of where you are, it can deliver a rapid, convenient, online after-sales service, ensuring the equipment to be maintained in the best condition for the long term.

- Rapid
- Reliable
- Effective
- Visual
- Recordable
- Can be evaluated
- Cost effective

YIZUMI e-service can deliver the followings to you



Mobile Operation: Smart Phone/Tablet/PC Multiplatform available.

Download the APP, enter equipment serial number /scan equipment QR code and the registration is completed.



IOS

Android