

Advantage

Plastics News from Haitian International

A Magazine of Haitian International | Issue 14/2015



AN EXCITING FUTURE IS PROMISED

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An interview with Mr. Zhou Wenhui, the Chairman of Board of Zhongshan Meitu



EDITORIAL

DEAR READERS,

Chief Editor, Prof. h.c. mult. Helmar Franz
Text: Prof. Franz



2014 has been another very successful year for Haitian International. Thanks to the ever increasing trust of our customers the dedicated work of our employees and all partners and suppliers and based on proven strategies; notwithstanding a rather difficult market environment our company reached another outstanding result. 27,000 machines have been shipped to customers and this is an overwhelming sign of trust in our products and strategies. More than 120,000 machines with "Mars Technology" and 5,000 Venus all-electric machines delivered to the market since introduction in 2006 and 2008.

Contributing to this success is innovation in our standard concept of machinery "Technology to the point," providing customers with what they really need for their application. Based on ever-improving communication and better understanding of essential needs, this focused innovation provides the ground for efficient manufacturing at our workshops; one result being affordable costs for our customers. This puts customers in a favorable competitive position and works efficiently on its part – for us it is a circle of success.

In May we welcome you to two important Haitian International events: On 18th of May, Zhafir Plastics Machinery is opening the first part of its new Chinese plant in Chunxiao, a suburb of Ningbo. The grand opening is expected to be attended by systems partners and numerous customers, including renowned processors from both China and overseas.

On 20th of May we expect more than 80,000 visitors to attend Chinaplas 2015 in Guangzhou. Traditionally this is a big event in the Chinese plastics processing and plastics machinery manufacturing industry and we use this exhibition as an excellent platform to exchange views, discuss projects and conclude commercial contracts. We hope to see you there for many interesting and beneficial meetings.

Warmly welcome to our events!

Sincerely yours,

Prof. h.c. mult. Helmar Franz
Executive Director and Chief Strategy Officer

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AN EXCITING FUTURE IS PROMISED



ANOTHER NEW PLANT OF ZHAFIR PLASTICS MACHINERY OPENS IN CHUNXIAO, NINGBO, CHINA

18 May 2015 marks yet another milestone in Haitian International's and its high end brand Zhafir's success story: Zhafir Plastics Machinery is opening the first part of its new Chinese plant in Chunxiao, a suburb of Ningbo. The grand opening is expected to be attended by systems partners and numerous customers, including renowned processors from both China and overseas.

After a construction period of some 15 months, the finished complex offers a production area of around 120,000 m². Here, roughly 400 employees will in the future produce as many as 5,000 Zhafir-brand electrical injection-molding machines per year. Total area for the plant's buildings is planned for approx. 300,000 m², with a maximum production capacity amounting to 10,000 machines annually.

The plant includes departments for R&D, a technology and application centre, machine testing, metalworking, and sheet-metal processing, and for a paint shop and machine assembly. Production will focus first on the successful Venus

series and the new Zeres series. Other models will gradually be added to the portfolio.

Lean production in accordance with international standards

1. Decentralized painting, painting before machining

A decentralized paint concept is installed upstream of production/final assembly in order to handle castings, sheet-metal parts, and machine beds on demand, i.e. not until they are needed in the process. As compared to the traditional centralized painting, which is usually done after machining, it would require machining or assembly workers to pay much more attention to avoid scratch.

2. Decentralized stock to shorten internal transportation

Sophisticated and fast materials supply is the key to efficient manufacturing. Several decen-

tralized warehouses located directly adjacent to the individual sub-assembly modules will reduce internal transportation routes and supply times, enabling a more transparent management of inventory.



3. Modularized subassembly

The concentration on sub-assembly stations for injection units, clamping units, control cabinets, carriages, or machine beds reflects modular approach concept while incorporating our high standards of quality. Here, all sub-processes are



5. The final assembly workshop at current stage

executed efficiently and controlled by qualified employees. It also enables us to respond precisely and quickly to the customized requirements.

further reduce production times. The lift system is available on working position, which is easy to operate for workers. Without any chain or electric motor, such final assembly line is more energy saving and easier to maintenance as compared to the traditional ones.



4. Final assembly at conveyor belt

Final assemblies that include extensive quality controls on conveyor belts and assembly lines



6. Flexible machining system

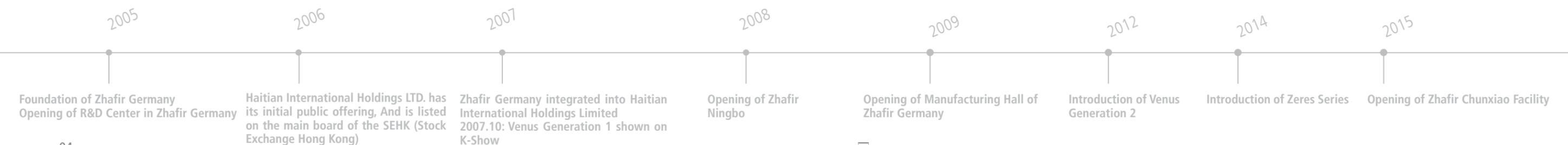
Now Zhafir has four Flexible Machining System (FMS) of Niigata, Japan and HISION, which makes it possible to manufacture flexibly with multi-trays. With the help of Niigata, Zhafir is now upgrading the tool magazine and efficiency of one of the FMS. After such improvement, Zhafir will be able to run a consecutive 16 hours unmanned production on such FMS.

As a member of Haitian International, Zhafir Plastics Machinery focuses on research, development and manufacture of high end injection



molding machines, which is key to Haitian International's multi-brand strategy. Since the first machine left the Zhafir in Ningbo in 2008 and in Germany 2009, by today about 6.000 machines are delivered and this machine became very popular in the market.

Apart from the new facility in Chunxiao Ningbo, part of the Zhafir Plastics Machinery Group is the technology development center Zhafir Plastics Machinery GmbH in Ebermannsdorf, Germany. The German R&D team works on innovative new electrical machine solutions in close cooperation with their colleagues in Chunxiao. For the European market, Zhafir machines are assembled and customized in Ebermannsdorf, Germany, Where the planning for further increase in capacity is on the way.

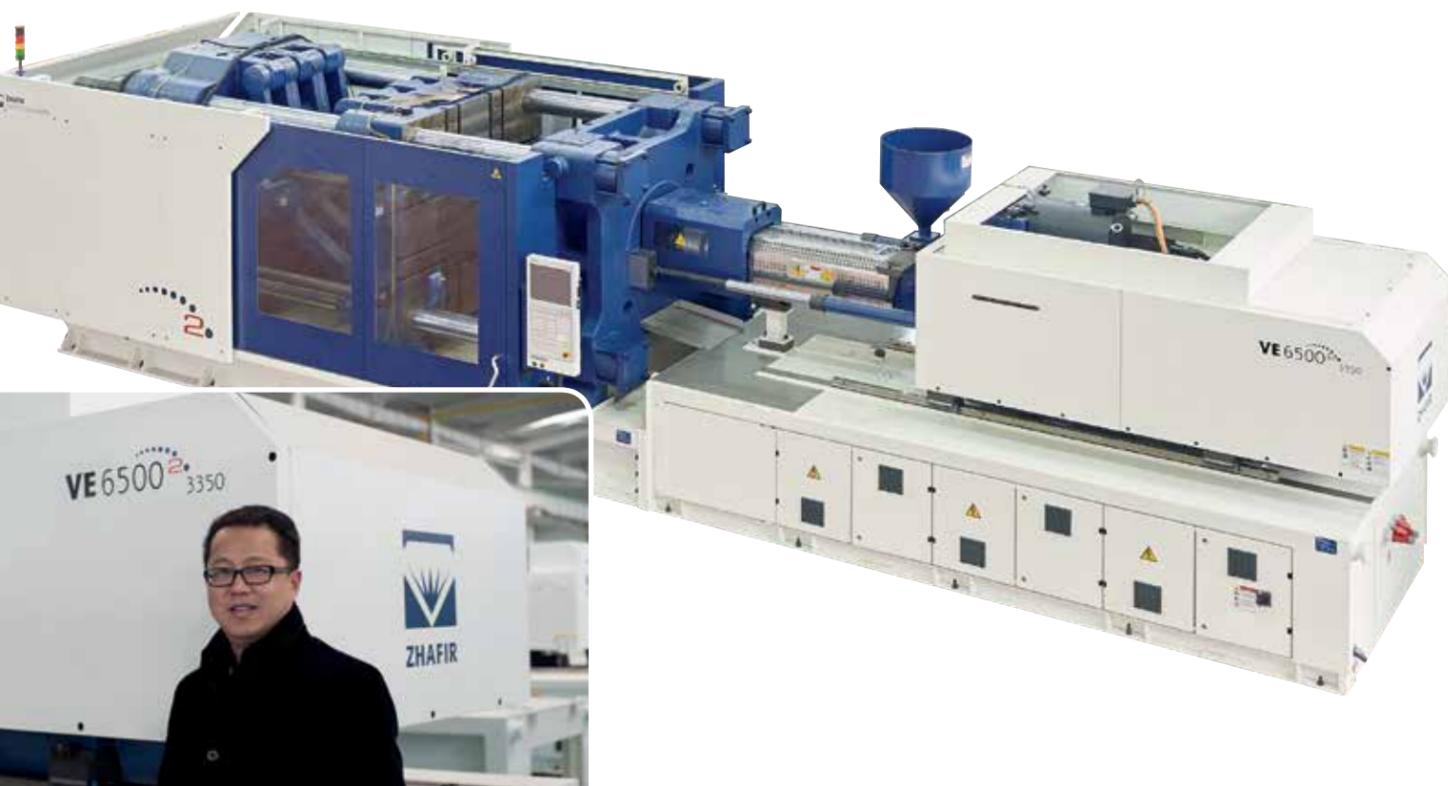


INTERVIEW:

NEW: THE VENUS II WITH A CLAMPING FORCE OF 6500 KN

Interview with Mr. Fu Nanhong, Head of Development at Haitian International and CEO of Zhafir Plastics Machinery

Technology to the point for sophisticated large precision parts and large thin wall parts in the standard range.



With the new Zhafir Venus II 6500, Haitian International's high tech brand Zhafir Plastics Machinery underlines once more the consistency of its market focus with demand-driven technology to the point. This biggest Venus machine to date is ideal for sophisticated standard applications, for instance in the automotive and electronic industries, domestic appliances, and packaging.

We spoke with Mr. Fu Nanhong, head of development at Haitian International and CEO of Zhafir

Plastics Machinery in Ningbo, about the technical advantages of the VE II 6500.

Mr. Fu, the new Venus II with its clamping force of 6500 k now borders on the big machine sector. What product groups were you and the Zhafir R&D team aiming at during its development?

Mr. Fu: Among other attributes, this new machine offers a lot of space for the mold with space between

tie bars of 1080 x 1080 mm and provides a choice of up to 4 injection units. We designed the VE II 6500 for processors working on larger precision and thin wall parts, like in the automotive, electrical and packaging sectors.

Ideally it is for use with standard applications in which high precision is required at low injection speeds. Here, the fully electric machine technology scores points with its high efficiency and excellent accuracy of reproduction.

Car interior part made of PP with leather IMD with the Venus standard function "compression molding"



Machine type	VE 6500 II /3350
Application	automotive interior
Screw dia	80 mm
Material	PP
Cavity	1 cav
Part size	800*200 mm
Weight	360 g
Cycle time	50 s

The Venus is technology to the point for standard packaging parts



Machine type	VE 6500 II /3350
Application	large container
Screw dia	80 mm
Material	PC
Cavity	1 cav
Part size	250*250*320 mm
Weight	1800 g
Cycle time	23 s

Are there any initial results yet for applications that specifically profit from this increased performance?

Mr. Fu: Yes, there are already some. We came across one clear example in the automotive sector just last week. We tested an interior part made of PP and decorated in leather using the IMD process for a prestigious automotive supplier in China. Up until then, the customer had been producing on hydraulic machines and there had always been precision problems with low-pressure injection. Thanks to the Venus's "injection compression" standard function and its highly accurate clamping unit, we were able to regulate both temperature and pressure with high precision.

What other fields of application can the big Venus serve perfectly as well?

Mr. Fu: I think, generally speaking, the bigger Venus can suit many fields of application that are closely correlated to high expectations in terms of precision and surface quality, for example, white goods, large-volume packaging, or standard packaging with high-cavity moldings such as standard caps or IML packaging containers.

Are there any specific results from this?

Mr. Fu: Yes, for example we ran a mold test with a container made of PC for the vegetable compartment in the refrigerator. Previously, the customer had been using a servo-hydraulic 9,000 kN machine for production, achieving a cycle time of 75 seconds. The first calculation made with the VE6500 II /3350 already resulted in a reduction down to 25 seconds. Thanks to the parallel movements and the highly

dynamic Venus clamping unit, after a few test cycles we finally ended up at 23 seconds. That's a reduction of more than 70% (smile). In addition, there were some other positive test results too, for example in energy values, in repeatability, in surface quality, and many more. The customer promptly ordered the new Venus.

How do things look regarding the integration of robots and automation?

Mr. Fu: We have already completed a great number of projects with applications linked to upstream and downstream automation. Here too, the focus is less on absolute high speed cycle times and much more on precision injection. In the packaging sector, the smaller Venus models have already firmly established themselves in the market. When integrated into efficient automation, the big VE II 6500 should be very attractive to many processors for applications in the automotive sector.

When is the big Venus available?

Mr. Fu: In China, immediately. For the international market, it will be ready including all safety requirements in different markets for operation around the second half of 2015.

Are there plans to expand the Venus upwards?

Mr. Fu: Yes, there are. To be specific, a VE II 10000 (1,124 U.S. tons) is already under development. The prototype will be revealed later this very year.



"The new VE 6500 is appealing to U.S. customers with packaging and container applications that require independent or simultaneous function to reduce cycle time. We already have meetings scheduled at NPE with our packaging customers who can see that 650 metric ton (730 U.S. ton) all-electric machines will offer them considerable advantages."

Glenn Frohling, Owner of Absolute Haitian, USA



STRATEGIC PARTNERS ALWAYS SHARE THE SAME VALUES

Interview with Ms.Liu Yuling,
Deputy General Manager of Rastar Group

Rastar has been engaged in R&D and manufacturing of auto models, since its establishment in 2000. Now, it has been developed into a leading manufacturer in China for the auto model. We talked to Ms. Liu Yuling, the deputy general manager of Rastar Group shortly after the Guangzhou Toy Exhibition.

When recalling the Guangzhou Toy Exhibition, Ms. Liu told us that "the Guangzhou Toy Exhibition took place right after the China Import & Export Fair (also in Guangzhou) and was such an ideal platform for Rastar. We are proud that our products are very well accepted and liked by a wide range of customers. For Rastar, export business accounts for a crucial part of our entire business and our major battlefield is the international market. Currently, our products

Ms.Liu Yuling (left), deputy general manager of Rastar Group, And Mr. Wang Xianbin (Haitian Agent)



are mainly exported to developed countries in Europe, America, Japan and Austria etc. Therefore, it places a strict requirement for us concerning the product quality. The quality of our products is ensured through our constant upgrade of our internal control and the quality of our manufacturing equipment is the first step to control and ensure our quality.

Ms. Liu further commented, "At the beginning of Rastar's development, we relied much on injection molding machines supplied by a well-known domestic supplier. However, we also had been bothered by the production quality and the oil leakage problems. Reliable machines are the basic guarantee for producing highly qualified products and it is also the reason drove us to consider injection molding machines from other suppliers. After very careful investigation into the market, we found out that Haitian was a quite popular and well-reputed brand in the market. Our face to face communication with Ms. Wang from Haitian Shantou office, was so thought-provoking and impressive. Finally we had an evaluation meeting for several injection molding machine suppliers, the production comparison test on different machines proved that Haitian machine outperformed others

in terms of production stability, reliability in avoiding oil leakage and superior price and performance ratio etc. Finally, we decided to buy Haitian machines and until now we have altogether bought a considerable quantity."

"The pursuit for quality never has a boundary and whether the price is cheap or expensive also is relative. Therefore, provided that the machines can satisfy the quality requirement, then the price and performance ratio is another pivotal issue to be considered for us. Just like in your words, technology to the point."

Ms. Liu was quite impressive about Haitian's service and she shared with us a story. "At that time, several Haitian big machines were about to be installed and prepared at our remote production base. However, the service company in charge of the installation was not familiar with the local situation, but the production could not be delayed. After being informed about such situation, Haitian started to investigate and propose for solution without any delay. Problems including hoisting and bearing for big machines were solved very quickly. As soon as the machines were ready, the Haitian After-sale service team proposed a step-by-step ground level measurement solution. It was just an example and according to the feedback we collected from the production department, Haitian's after-sale service team has been doing a good job in paying regular customer visit and maintenance work. It is Haitian's principle of caring for people that solidifies our cooperation.

Rastar believes in that 'quality is our life and service is our sole'. That's why we pay great

attention to secure our product quality, listen to our customers and markets carefully, work hard in innovation and development to satisfy our customer with strong service. However, it does not mean that we just trying to please our customers by always saying 'yes', we also try to guide our customers to make a good choice".

Mr. Liu further explains, "At the beginning of exploring the domestic market, we had a very close communication with our first distributor in Guangdong. We tried to transmit to them not only the products but also our ideology and company vision behind it. We also provided them with strong support after sophisticated market study and investigation. When implementing the sales plan, we guided them to make a special area in the toy car area, to place some toy cars with colors of 'China read'

and 'classic yellow' stack by stack, which forms a kind of visual delight and are offered at a reasonable price to make it a great attraction to the consumers. I also invited a potential distributor to stay away and watch together with me at that evening, 3 toy cars were sold in minutes.

From then on, more and more distributors start to work with Rastar and our domestic business gets into the right track and starts to improve. Haitian's success is attributable to our core vision of three pillars including "people, cost and capital".

What's the vision of Rastar?

Ms. Liu, "Dedication, Team Sprit, Innovation is the core vision of Rastar. Here dedication is more about the moral aspects, which requires

us to be disciplined in profession for a common interest of a group because people are living in different collective societies for working. Group formed by excellent talents does not equal to an excellent group.

Innovation means to stay critical for ourselves

A group will be competitive and innovative only if everyone in this group will observe the shared value and rules. Innovation in ideas, technology, management, organization and service, helps Rastar to maintain sustainable growth. Innovation means to stay critical for ourselves when reviewing the past and continue to challenge ourselves and make further breakthroughs. It is a kind of spirit about never staying satisfied, able to do first.



Products of Rastar Group



Workshop of Rastar Group

About Rastar Group

Huangshan road, Longhu District,
Shantou, Guangdong

www.rastar.cn

Established in 2000

Focused on:

Alectrical toy cars, plastics toys,
car models etc:

SECRETS TO SUCCESS: FOCUS AND INNOVATION

An interview with Mr. Zhou Wenhui, the Chairman of Board of Zhongshan Meitu



Established in 1992, Meitu's operation starts from a rented factory with an area of only hundreds of square meters, and now it has successfully developed into a large enterprise with more than 2,500 employees, covering an area more than 150,000 square meter, including 90,000 square meter for production. Meitu has been focused on development and manufacture of sanitary ware and has maintained a long-term cooperation with many well-known domestic and international sanitary ware manufacturers, including American Standards, Toto, Arrow and Hegggi etc. Meitu invested RMB 400 Mio and built a new facility in Tianjin in 2010, to further strengthen its strategic positioning throughout China.

Advantage Magazine: Mr. Zhou, what's your magic weapon for the remarkable success in the sanitary ware industry?

Mr. Zhou: It's not magic, but we do have two keys, one is focus and concentration, which is fundamental for a long-term and strategic development of our company. Starting from producing the first piece of toilet cover in 1992 until now with production capacity to 20 mil-

lion sets per year, we have always been staying focused and concentrated in the sanitary ware industry. Such dedication brings us a sustainable growth.

The second key is innovation, which is pivotal for development of us. The external environment, market and the customer needs are always changing. To advance with the time and be innovative is the driving force for a sustainable and positive growth of the company.

Advantage Magazine: We observe that Haitian machines are the major equipment used here for production; does it mean that Haitian machine fits into your strategic development?

Mr. Zhou: I'm a big fan of investing into production equipment, from CNC machine, to injection molding machines and software as well. We always keep in pace with the latest development in the industry and even stay a bit ahead. We are very independent throughout the whole process from development of products, to mold manufacture and production maintenance, without any external supplier.

Such independence ensures our quality and delivery on time.

Meitu is the owner of Haitian's first two platen machine and also the customer which owns most Haitian IA machines in Guangdong. We used to place an order for 16 Haitian IA machines to produce thick-wall product by using interlayer injection molding process. It has substantially reduced the cost for products while ensuring the quality of surface and intensity at the same time. I'm strongly convinced that technology is the first productivity.

We are also demanding for injection molding machines. Long time ago, we bought a Hong Kong brand injection molding machine from a trade company and used for one month, then the screw surface started to peel off and our production was therefore severely interrupted. We tried to communicate with the supplier for several times and the final explanation was that the screw is an imported part with high quality but it is also a part which can be easily tear and wear, then they attributed the problem to us for improper use. Such attitude was quite disappointing to me. So we finally terminated

the cooperation and have not longer bought any of their machine until now.

Haitian machine gains our trust with its quality and after-sale service. Currently, we are running hundreds of Haitian machines and we have been constantly extending the application scope of those machines, further exploring their possibilities. We also had some problems with Haitian machines, but we were quite satisfied that those problems could be solved very quickly by Haitian's after-sale service team, they are quite fast responsive and reliable.

Once when the CEO of Haitian paid a visit to Meitu and when he saw Haitian machines in our workshop, he was surprised that we were running a caravan like a sport car. Of course, we also communicated to Haitian timely for some feedbacks, which may play a positive reference to Haitian for further improvement. So I think it is more like a strategic cooperation between us instead of simply a buyer and seller relationship.

Advantage Magazine: Innovation interpreted by Haitian as technology to the point. What is Meitu's understanding about innovation and quality?

Mr. Zhou: Innovation is one of the fundamental principles for Meitu to drive its operation and we focus on sustainable research and development of new products. However, new products do not necessary mean that we should not consider cost and the real market needs but only target for higher technology and higher product quality.

Requirement for quality is also diversified according to different industries. For instance, the requirement for parts in the white good industry will equal to that in the automotive or IT industry. Requirements for production equipment

Showroom of Meitu



should not apply to consider the performance but also the cost. To produce products of lower return or lower added value with top class production equipment is definitely not wise and on the other hand, it is also impossible to produce products with highest quality requirement based on a very cheap simple machine. That's why we believe to select a "to the point" machine is the key to production, ensuring that we will produce the product "to the point".

Talents are also key to innovation and it is very important that the company to train and develop its own talented people. Meitu has been actively invested into development of products with independent patent rights and to develop our core competitiveness. For instance, lately we have successfully developed a new prod-

uct with better surface smoothness and better resistance to scratch. As soon as the development of such new product has been completed, other competitors already started to attract our employees to work for them and try to get such process. But we are quite convinced that copy from others will not make one success, only innovative products will make one company stand outstanding.

Advantage Magazine: what's your expectation for future cooperation with Haitian?

Mr. Zhou: Considering the increasing advantages delivered by automation, we also expect that Haitian could provide more turn-key solution for us based on the injection molding machine.

Zhongshan Meitu



Workshop of Meitu



OUR PEOPLE MAKE THE REAL DIFFERENCE

An Interview with Guowei Plastics Mold



From left: Mr. Deng Guoqing, Mr. Wang Xianbin (Haitian Agent) and Mr. Han Zhaoyan

Meizhou in Guangdong province is a beautiful city with green mountains and lakes. It is also the home place for many famous people, including Mr. Ye Jianyin, the famous Chinese Communist General and even Lee Kuan Yew, the first prime minister of Singapore etc. Guowei Plastics Molding is exactly located in the eastern area of Meizhou.

Guowei Plastics Molding is a large electronics enterprise engaged in development and manufacture of communication equipment. The company has independent R&D and manufacture capability in mobile communication equipment, and is now one of the biggest telephone manufacturers in China, with authority to sell international mobile or telephones including SunCorp, SGW, Guowei and Motorola etc. Guowei is also the supplier to many famous telephone manufacturers including BT/SWISS Voice, Panasonic, Philips etc. Guowei's products are mainly exported to developed countries in Europe and North America and therefore the requirement for quality is especially strict.

The Advantage Magazine talks to Mr. Deng Guoqing, the general manager of Guowei and Mr. Han Zhaoyan, the manager in charge of injection molding department.

Design for mold should be involved as early as possible in product design

Parts design engineers shall consider the simplicity of molds as well. For instance, the size and precision of the products, the shrinkage of materials, production process, the production capacity, panting and even subassembly for electric parts etc. If the production is not concerned when designing parts, then the injection molded parts later produced will not meet the expected requirements. That's why the design for mold should be involved at the beginning of design for finished products and it should consider comprehensively about the function, structure, appearance, service life of each plastics part. Guowei has also installed a powerful team for mold, composed of 80 people taking care of mold manufacture. Currently, the new site for the Mold Department is under construction and is expected to be completed soon. It will have advanced equipment and talented technicians.

Like automotive, maintenance is also important for injection molding machines

Guowei currently has 109 injection molding machines, all of which are from Haitian, including electric machines from Zhafir and also some

hydraulic machines with Haitian and Tianjian brands. As we know, regular maintenance is very essential for automotive and is usually taken according to the miles and days we drive the cars. The timely and appropriate maintenance can not only ensure safe driving but also enable the drivers to enjoy the fun of driving. Just like automotive, the injection molding machine is also composed of thousands of parts and it sometimes even has to work incessantly for 24 hours. In light of this, maintenance is crucial for running injection molding machines. During the production management procedure, Guowei divides maintenance for injection molding machines into

The new Mold Department under construction



Zhafir Venus machines at Guowei Plastics Mold Workshop

three categories, including daily maintenance, regular maintenance and substantial maintenance etc. Each type of maintenance is further divided into details, for instance, maintenance for hydraulic layout, electric system, mechanic system etc. Usually, regular maintenance only takes half an hour and can be done in parallel with the mold exchange, which will not occupy the working hours of the machine and enable a full utilization of the machines and further improve the efficiency.

Benefit from such regular and careful maintenance, the injection molding machines in service at Guowei never runs into sudden failure during the ordinary operation period.

Quality and reliability is key to injection molding machines

Guowei had been using Japanese hydraulic machines for quite a long time and later we realize that the cost for such Japanese machine is extremely high during the latter use period, because it lacks of timely and efficient after sale service and the machine will sometimes stop.

Guowei noticed that Haitian machine is gaining popularity in the market since 2000 and it is also technically reaching the internationally advanced level. Therefore, Guowei made a comprehensive comparison among Haitian Mars machine, the Japanese machines Guowei was using and also machines of other domestic brands. The final result shows that Haitian's Mars machine outperforms others in terms of stable performance and its energy saving performance is even more impressive. Because of the superb price and performance ratio, stable and reliable performance and non-oil leakage etc., then Guowei changed all its machines to Haitian machines step by step.

Automation is the future tendency

At the beginning stage, the production at Guowei is not very efficient and most of the molded parts were supplied externally. Without direct control over the production, we had a lot of problems concerning the irregularity in product quality, low production efficiency and extremely high cost. To solve such problem, Guowei introduced the automated production solution.

The advantage of automation is quite obvious and it becomes appealing to many enterprises inevitably. First of all, automation effectively solve the problem of labor force shortage, because it can substantially reduce the demand on labor force. Now around one hundred machines there can reach production capacity which needs to be performed by hundreds of machines before and the labor force were also reduced. Secondly, automation avoids some human factors, which may interfere the consistency of produce quality. Automation improves the production efficiency and quality, while also reducing the cost on the same time at the same time.

Guowei is quite interested in the turnkey automation solution as available now on Haitian's side and is looking forward to further cooperation with Haitian in highly integrated automation system.

Professional tasks can only be fulfilled by professionals

Benefited from its decades of years' experience in the plastics industry, it has successfully accumulated a profound base for machines and talented people, which can cover the entire procedure for plastics parts manufacture, from design, mold, to manufacture and painting etc. Guowei is confident that "We can do better than



Product: Base station for telephone

others when producing the same product and if others can do it in a good way, then we can produce with lower cost." With such profound resources and strong confidence, Guowei now has been developed into a leading company in the local plastics processing base and is capable to support its customers with supplementary production of plastics parts.

There is a big customer of Guowei, who used to invested a lot into producing plastics parts by itself. However, due to the complicated process and lacking of related experience, appropriate equipment and testing technique, the production at this customer's side was quite disappointing and the cost was too high. Then this company cooperated with Guowei and later gained great success, thanks to the superior product quality and lower production cost at Guowei. This customer has already launched its IPO.

Haitian Mars machine at Guowei Plastics Mold Workshop





This QR code creates compact information about us and our product portfolio.

WELCOME TO CHINAPLAS

EXHIBITS AT A GLANCE

Haitian Mars² Series



1700 / 2100 / 2700 / 3300 kN

**NEW EDITION
HIGH PERFORMANCE**

Haitian Mars II /h Series

Mars High Performance edition enhance the application field of the best seller Mars Series: overall upgrade in design, substantial improvements in addressing problems such as oil leakage and limited service life of machine in fast cycle time injection molding. Modern manufacturing process and advanced injection control enables fast response and highly stable performance of the machine. It can be widely applied in the plastics processing industry, especially for applications as thin-wall parts and it also provides increased mold space with high cavities.

Machine type MA2100 II /750h
 Application Icecream cup
 Part weight 10 g
 Cavity 4
 Material PP
 Cycle time 5.5 s



ENERGY SAVING TECHNOLOGY



Haitian Jupiter² Series



4,500-66,000 kN

**COMPACT
SPACE SAVING**

Haitian Jupiter II Series

The Jupiter II Series promises high value to the customer with regard to repeat accuracy, precision, and energy efficiency for the most diverse applications and materials. The large, moving adapter plate of the mold guarantees high platen rigidity during the movement as the load increases as a result of large molds. The innovative Mars Technology with a direct connection between the servo-motor and the geared pump provides extremely fast response times.

Machine type JU6500 II /4500
 Application Automotive engine cover
 Part weight 950 g
 Cavity 1
 Material PA6 + 30%GF
 Cycle time 55 s



ENERGY SAVING TECHNOLOGY



Zhafir Venus² Series



400-6,500 kN

**DYNAMIC
COST EFFECTIVE**

Zhafir Venus II Series

The Venus II Series is highly dynamic, cost-efficient, and more customer-oriented than ever before. The new injection unit has a more compact shape; fewer individual components provide for greater stability and dynamics in the injection process. The clamping force for Venus II Series is available from 400 until 6500kN.

Machine type VE6500 II /3350
 Application Automotive part
 Part weight 288 g
 Cavity 2
 Material PP+EPDM-T20
 Cycle time 55 s



ENERGY SAVING TECHNOLOGY



Zhafir Zeres Series



400-5,500 kN

**NEW ELECTRIC SERIES
WITH INTEGRATED HYDRAULIC**

Zhafir Zeres Series

The Zeres offers all the advantages of electric injection molding technology: precision, energy efficiency, independent parallel movement throughout the whole cycle, and, not least, easy maintenance. Servo-electric drives for injection, dosing, and mold movement ensure a high level of dynamics. In addition, an integrated hydraulic unit for minor movements the Zeres for applications with core pulls or standard precision parts.

Machine type ZE900/210
 Application Medical feeder
 Part weight 19.1 g
 Cavity 1
 Material PC
 Cycle time 35 s



ENERGY SAVING TECHNOLOGY





Haitian Plastics Machinery manufacturing hall in Ningbo, China



Zhafir Plastics Machinery manufacturing hall in Ebermannsdorf, Germany



Zhafir Plastics Machinery manufacturing hall in Ningbo, China



Proximity to customers create advantage

Because of the permanent availability of important customer services, replacement parts and service features, our customers are always able to develop clear competitive advantages and to use them lucratively, both now and in the future.

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