

FCS TODAY

FU CHUN SHIN MACHINERY MANUFACTURE CO.,LTD.

Breaking
News

**2013
FCS Global
Exhibitions Preview**

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FOCUS

- **Total solutions for today's processors**
- **FCS released clamping force 1,900 ton two-component IMM**

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ChinaPlas 2013 Preview

CHINAPLAS 2013 will be held during May/20~May/23 in Guangzhou. FCS will show some eagerest needed machines at this fair, including "A-PACK In Mold Labeling Turnkey Solution", "Two components injection molding machine: FB Series", and "New Energy-Saving Injection Molding Machine: HD-SV Series".

1. A-Pack IML Turnkey Solution

The A-Pack IML Turnkey Solution could be applied to wild range of beverage, dairy or food container. This system has advantages of stability, high speed, and energy saving. The highlight is that the whole system gets CE certified and has a new appearance which completely suits European market requirement. A-PACK IML Solution consists of 4 components including AF-200, a hi-speed hybrid close loop injection molding machine, 2 cavities hot-runner mold, the label feeding and product taking system with high speed robot, and labels for IML process. This system could increase the production efficiency and decrease the cost.

2. FB-SV Series

Two components-Servo Power Saving injection Molding Machine FB-SV series employ the single-cylinder injection structure and assures stability of the machine. It adopts Japanese high efficiency motor and pump control technology. Under ideal situation, the energy saving could be 40% better than various pump and even 70%~80% better than traditional pump. It assembles patented locking systems to assure the rotary table turning to accurate position. This series are suitable for producing all kinds of two components goods and its maximum clamping force can reach 1420 tons. This series can be equipped with closed loop serve valve (optional). It has high response and high repeatability. FB-SV series are suitable for mobile-phone parts, tool handles, pens, auto lamp cover, etc.

3. HD-SV series

This is a new system that FCS developed for energy saving. It accomplishes high energy saving, high precise, high response, low noise, and easy to be controlled. Since the motor only works when necessary, it won't create extra heat and that will lower the oil temperature. In addition, the hydraulic oil even doesn't need to use extra power to cool down, and all of these help the machine to save more energy. The machine also adopts highly sensitive pressure feedback equipment, and the close loop design helps the machine move more precisely and stably.

FCS is the Taiwanese largest and significant manufacturer of plastic injection molding machines founded in 1974. Our dedication to quality is highlighted by the fact that we were the first company in the IMM industry to obtain the CE mark and ISO9001 certification. We were also awarded with the "It's Very Well Made In Taiwan" certification in many years. FCS is also publicly traded professional injection molding machine manufacture on the Over-the-Counter Securities Exchange in Taiwan. So far, there are three factories located respectively at Tainan Taiwan and Dongguan, Ningbo China. The annual turnover of the whole group is USD90 million. More than 70 service centers all over the world are 24 hours stand-by to serve customers. The clamping force of our production line includes 30~3700 tons.



Welcome to visit our stand.

ChinaPlas® 2013
国际橡塑展 2013

China Import and Export Fair Complex
Pazhou, Guangzhou

DATE : 5/20~23 STAND : Hall 3.1 D31

Plastics News For Asia Ringier interview with FCS

Total solutions for today's processors

from Mr. Po-Hsun Wang, Chairman.



Asian processors are taking quality seriously in today's highly competitive environment, where product excellence can make a big difference in retaining a slice of the market. An innovator in the injection moulding sector, Fu Chun Shin Machinery Manufacture Co., Ltd (FCS) has grown alongside the dynamic Asian plastics industry with its range of high-precision products. Mr. Po-Hsun Wang, Chairman of FCS, relates to International Plastics News for Asia (IRNA) how the company has enhanced its expertise to become at par with leading global machinery manufacturers.

IRNA: How would you assess the market for injection moulding machinery in Asia?

Mr. Po-Hsun Wang: Since 2000, industrial plastic production has seen dramatic growth in Asia owing to the transfer of advanced moulding technologies from Europe and America, such as high-speed precision, multi-colour injection, energy saving, and other special features. Even under the impact of the 2008 financial crisis and the more recent European debt crisis, the injection moulding machine market is still growing in Asia.

But due to the uncertainty about the economic condition, customer demand has changed. Short-term planning is more preferred than long-term investment, and customers often ask for very short delivery lead time bringing stress to machinery suppliers. Moreover, customers ask for production efficiency, quality, and stability that the trend for injection moulding machines is more on customised services to become more competitive.

IRNA: How does FCS meet recent market requirements for injection moulding equipment?

Mr. Po-Hsun Wang: To satisfy the expanding market in China, FCS established its first subsidiary company -- FCS Dongguan in 1994, and then set up FCS Ningbo in 2001. FCS also seized the opportunity of supplying customised equipment that conform to customers' specific production conditions. FCS successfully implemented a strategy of "characteristics in operation; differentiation in development", and now F means Fast response, C for Customer oriented, and S for Services differentiation.

Services differentiation does not only refer to the provision of customised machines, but also to our aim of offering "one-stop shop" total solution to our customers -- which is to integrate the injection moulding machines, moulds, automated peripherals, materials, and moulding technology through whole plant exportation sales model, allowing customers to directly and successfully do the mass production of plastic products for special applications.

From the sale of injection moulding machine to injection moulding solution provider, FCS has started integration of industry, government, academic and research resources in 2007, and successfully launched in mould labeling turnkey solution (IML) with an independent brand called "APACK".

We also established a department on Mould and Injection System Technology in 2011 to be in charge of the sales and FCS launched its IML production of IML, PET, and other turnkey solution projects. This department has achieved a sales turnover as 10% of FCS group's so far, and is planning to grow by around 30% within next three years.

IRNA: Aside from Asia, what are other emerging markets or regions that FCS would like to explore?

Mr. Po-Hsun Wang: FCS sales turnover in Asian markets is more than 80% of the total FCS group's turnover. We have 70 sales and service centres all over the world and in Asia we have 40 centres. In the future, we will still focus on China and Southeast Asia.

After three years of preparation, FCS made a contract in 2011 with the Japanese company MARUKA Machinery, which will be our agency in North America. That is a very important milestone for FCS, not only means that FCS' technology and quality have passed the strict request of the US market, all those experience and improvement we have learned can be applied to the Asian market to enhance the competitiveness of Asian industry. Furthermore, we also won more Japanese customers' attention and this gives us more chances in Japanese market.

IRNA: How would you describe the efforts undertaken by FCS in meeting global standards?

Mr. Po-Hsun Wang: With nearly 40 years of professional skills and experience in injection moulding machine industry, FCS is now listed in Taiwan Top 1,000 manufacturers, and our export performance has also been one of the highest amongst Taiwan-based companies.

Aside from setting up of a major R&D centre in Taiwan Headquarters, we also cooperate with famous universities, and we also established a laboratory for precision injection moulding which does basic research and improvement for machine safety, energy saving, lifecycle, as well as the integration of human factor engineering, operation intelligence and design aesthetics.

Customers can see our efforts and evolution in various exhibitions and events we have attended. For instance, we launched a new design in 2010 Taipeiplas and K show. In 2011, we announced

FCS new corporate identity and showed a new image to the world.

In 2012, we successfully entered US market with our HA series injection moulding machine, which is not only ANSI/SPI

IRNA: How do these efforts impact FCS products?

Mr. Po-Hsun Wang: Since the issues of environmental protection and energy saving in the plastics industry are still hot, FCS knows the social responsibility and has begun to invest in the research and development of PLA moulding applications. We cooperate with material suppliers of PLA, and successfully developed a high heat-resistant PLA moulding technology. We already applied this technology for consumer goods and achieved superb performance, such as PLA cutlery and PLA mug. In the future, we will focus on mass production applications in a variety of consumer products, trying to cut down costs by replacing some plastics products and implementing steps for environmental protection.

FCS plans to apply servo technology for both standard and special machines such as thermosetting, PET preform, BMC, hybrid, super giant model, two platen, and multi-component injection moulding machine. The application of servo system can save 60%~70% energy than traditional one due to the close loop control ability; servo system can even improve the moulding precision up to 30%~40%.

In addition to multi-loop or high injection speed, the machines may also adopt special cooling system to shorten the cycle time. We also introduced Japanese patented product "Hungry Feeder" in 2010 which provides another choice for high precision technology to improve the moulding result. It not only saves energy, but also achieves high efficiency.

The characteristics of two platen injection moulding machine is that it saves 20%~30% space than traditional machine. FCS plans to make two platen injection moulding machine for the giant type (from clamping force of 1,700 tonnes). We also positively expect market demand for large multi-component machines with clamping force of over 1,000 tonnes.



FCS released clamping force 1,900 ton two-component IMM

Since the first generation of two-component IMM was developed in 1984, FCS has sold over 2,700 sets within 28 years. Especially, the IMM of more than 1,000 ton have been sold over 50 sets. The popularity and reputation of this machine reaches a great level and sets the best record in this industry. FCS' two-component IMM are broadly used in various industries, such as 3C, auto parts, packing and house wares. The functionality and quality have reached steady level under customer's request and advanced development. In order to satisfy the customer's requirement and maintain the higher C/P value, FCS two-component IMM offers the diversified function for different industry, such as: rotary table, rotary axis, 3 components, 4 components, dual injection and mixed color. This makes the customer keep ordering FCS' two-component IMM.

In order to increase the advantage of two-component IMM, FCS develops "high tonnage two-platen two-component IMM" and it was successfully released in Chinaplas 2012. This is HB-1900R whose clamping force up to 1,900 ton. This is one of few huge two-component IMM in the world. This machine combines two platen, two-component, horizontal rotary table and servo power-saving system; it basically fits the blank market of huge two component IMM.

The conventional two component IMM are generally used for the product and mold under 1500 clamping tonnage. However, it requires higher clamping force when the size and structure of product becomes bigger and more complex. By using HB-1900R, it avoids the influence of gravity and inertia resulting from vertical rotary table. Thus, this model is especially suitable for TV frame, automotive interior trim, sunroof, quarter window and lamps cover.

Because this machine adopts the two platen clamping structure, two horizontal injection units and overlapped mold technology. If this machine is used for single component product, it doubles the capacity and increase the efficiency. Besides HB-1900R, FCS also develops HB-600R and HB-1200R to extend the product range.

We conclude the advantage of HB-R as below:

- ★ Rotary table is horizontal type so that the mold is evenly placed on the two sides of central rotary table. Due to the horizontal rotation, there are no obvious gravity problem and mechanical limit. This eliminates the abrasion caused by the mass of vertical rotary table and unsmooth rotation, it allows the mass production of huge 2 components product.
- ★ Injection unit is horizontal type, equipping with horizontal rotary table. Comparing to the vertical one, the mold could be larger and designed for longer slide on the condition of the same tie bar distance.
- ★ Clamping unit with two platens, it not only saves space, but also satisfies the production demand of huge two components mold.
- ★ Equip with Germany servo system to reach higher energy efficiency.
- ★ Suitable for the two component product, such as the cover of huge home appliance, sunroof and car lamps.
- ★ This model is for single and double component to increase the efficiency.

Followed by the development of plastic product, consumers have higher expectation on the product appearance, there are more and more products adopting multi-component technology. Being the leading company in multi-component injection technology, FCS continues to release the better product. Besides the "HB-R" series, 2 components IMM with horizontal rotary IMM, FCS also released new generation FB-280R with servo rotary table and huge 2 components IMM with servo rotary table. With these new generations of machine, it not only meets the customer's demand but also reinforce the competitiveness of multi-color IMM. FCS continues to innovate and assist our customer to have leading position in competitive market.



2013 FCS Global Exhibitions Preview

FCS is the leading manufacturer of plastic injection molding machine in Taiwan since 1974. FCS received emerging stock approval from the Over-the-Counter Securities Exchange on April 2004 and becomes the only publicly traded professional injection molding machine manufacturer in Taiwan. FCS has been taking the leading position among the same trade, and is heading to be the worldwide famous company step by step.

For the coming 2013, FCS will increase the service travel with agent and customers, otherwise will active the important national plastic exhibitions for appear the new image to the world stage.

Welcome to visit our stand!

China

EXHIBITION	PRPE	CCEME	CWPE	Changchun International Plastics Machinery and Packaging Exhibition	CMEF	China Plas	APPLAS 2013	Xiamen Plastic and Rubber Exhibition
Location	Wuhan	Henan Zhengzhou	Chongqing	Changchun	Guangdong Shenzhen	Guangzhou	Shanghai	Xiamen
Duration	Mar/18-Mar/21	Mar /28-Mar /30	Mar /28-Mar /30	Apr/02-Apr/04	Apr /17-Apr /20	May/20-May/23	Sep/03-Sep/06	Nor/23-Nor/25

Overseas

EXHIBITION	Plas Print Pack Pakistan	Feiplastic	InterPlas Thailand	24th M'SIA-PLAS	VietnamPlas	K Show	PPP Indonesia	Myanmar-Plas	Plastivision India
Location	Lahore	Sao Paulo	Bangkok	Kuala Lumpur	Ho Chi Minh City	Dusseldorf	Jakarta	Yangon	Mumbai
Duration	Mar/17-Mar/19	May/20-May/23	Jun/20-Jun/23	July/04-July/07	Sep/03-Sep/06	Oct/16-Oct/23	Nov/20-Nov/23	Dec/14-Dec/17	Dec/12-Dec/16

2012 Dec.

FCS Semiannual Green Competition

