



# TODAY

FU CHUN SHIN MACHINERY MANUFACTURE CO., LTD.

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Breaking  
News

See you in  
**2010 TAIPEI PLAS  
& CHINA PLAS**

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#### FOCUS

#### ◆ 2010 FCS Global Exhibitions Preview

#### INDEX

◆ FCS Optimistically Facing 2010 .....	1
◆ 2010 TAIPEI PLAS Preview .....	2
◆ Great Motivation • New Definition • Mutual Prosperity .....	2
◆ 2010 CHINA PLAS Preview .....	3
◆ Report on AP Plas 2009 .....	4
◆ 2010 FCS Global Exhibitions Preview .....	4



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## Optimistically Facing 2010



**T**o all injection machine producers, there was no doubt that 2009 is a thriller year. For example, FCS got low orders in the first half year then the orders came back in 3<sup>rd</sup> season and got orders more than expected in the last season. And the sales in December were 4 times more compared to sales in January. In addition, there were machines worth more than USD\$18 million on delivering.

According to the signs, the economy seems recovering and the future looks so good. But is it true? Can the enterprises rest struggling and face the future optimistically? In my opinion, we still can't relax. By observing the economic reports, most of these reports forecasted that the economy will grow for 3%~4%. After analyzing the data, you will find that the economy recovery comes with the lower economic base in 2009. And in fact, the recovery was supported mostly by the restructured policy from the governments. But these initiative policies also caused heavy loadings to the countries financial situation, so some of the countries won't execute financial activities as strong as they did in 2009. That means the economy will have to operate under the market mechanism. That is why Morgan Stanley forecasted the economy will grow by 4% but the growth rate of the G10 countries will be only 2%.

Should we face the coming 2010 pessimistically? Not necessary. As I mentioned the economy growth rate will be 3%~4% in 2010. And the contribution

from those developed countries will be lower than 3% but the developing countries will contribute much higher. For example, base on the initiative policies like promoting infrastructure and subsidizing white goods and cars at countryside, the economy growth rate was forecasted more than 8%. And the other countries are also forecasted optimistically such as Brazil 5%, India 7%, Russia 5%, Indonesia 5%, Thailand 4% and Africa also 4%. These areas are full of opportunities. It depends on how the companies to run business in these areas.

Facing 2010, FCS will act optimistically but carefully. We expects sales turnover growing stably. The main reasons are FCS already well known in the developing areas such as BRICs, South East Asia and Africa. FCS will keep on developing these areas through existed channels. In addition, FCS has devoted to transfer from machine maker to " precise plastic molding service suppliers" for years. And the achievement was obviously observed. We unveiled "APACK IML Turnkey Solution", "Beverage Packaging Turnkey Solution", "PET Vacuum Blood Tube Production System" and "LM, Two Platen Injection Machine" in the past years. All these solutions were appreciated by customers. FCS will base on the strategy and keep on developing the precise plastic molding services. In addition, FCS will enlarge the synergy of the whole group to satisfy the customers from the whole world in 2010.



## 2010 TAIPEI PLAS Preview

**2010** Taipei Plas will be held from March 5 to 9 in Taipei. In this exhibition, Fu Chun Shin (FCS) will show her injection molding systems which contain high technology elements, including "new A-PACK In Mold Labeling Turnkey Solution", "AH-SV Servo Energy-Saving PMMA Thick-wall Injection Molding System", and "AF-SV Medical Parts Injection Molding System". These systems have their own features, not even reflect the market request and industry developing trend for energy saving and environmental protection, and also represent FCS' capabilities of R&D and system integration.

### 1. New A-PACK In Mold Labeling Turnkey Solution

FCS successfully integrates the automatic and injection molding techniques as an A-PACK IML turnkey solution which has been launched around two years before and received appreciative criticisms from the customers. So far, FCS has sold A-PACK IML system to China, Korea, and Sudan, and has been producing the other 7 sets for delivery in early of 2010. In order to provide more efficient system, FCS develops new IML system and chooses 2010 Taipei Plas to make its debut, which includes a new AF series injection molding machine and a new label feeding system, producing thin-wall round cups. This system not only keeps the advantages of stability, high speed, and energy saving, but also develops a multi-function feeding module which can afford vacuum or static label absorbing up to customers' requirements. FCS IML System consists of 4 components including AF-200, a hi-speed hybrid close loop injection molding machine, 4 cavities hot-runner mold, new label feeding system and product taking system, and labels for IML process. This system could increase the production efficiency and decrease the cost, for example, the round cup is taking around 5 sec of cycle time, and the throughput could be around 2 million per month.

### 2. AH-SV Servo Energy-saving PMMA Thick-wall Injection Molding System

To be aiming at the global trend of power saving, FCS integrates Japanese technology as a new servo energy saving system which highly increases the saving and production efficiency of thick-wall PMMA parts. In 2010 Taipei Plas, FCS would like to display the remarkable performance of this system and produce a PMMA thick-wall product which is 200g and cycle time is around 120 sec. This system adopts Japanese high efficiency servo motor and pump control technology, which means the servo motor only works when necessary so that it can accomplish high energy saving. Under the ideal situation, the energy saving could be 40% better than variable pumps, and the energy consumption could even achieve 70%~80% lower than traditional

pumps. Another, FCS adopts Nihon Yuki's Hungry Feeder device for this system, which helps to stably fill the plastic materials and precisely control the shot volume. It also decreases the screw abrasion and temperature, shortens the cycle time and dramatically saves more energy. Besides, due to the molding problems which often happen on transparent PMMA thick wall products such as silver marks, bubbles, and sink marks, FCS uses the optical-grade alloy screw which usually be adopted for producing light guiding boards, and integrates Hungry Feeder device. This integration could approve the surface appearance of transparent parts, decrease the defective rate, and even extends the mold maintain cycle. Therefore, this is a perfect solution for thick wall or long cycle production.

### 3. AF-SV Medical Parts Injection Molding System

In consideration of the requirement of medical parts production, FCS develops AF-SV Medical Parts Injection Molding system and chooses Taipei Plas for the first debut stage, formally announcing to step into the medical application region. Generally, medical parts industries require clean, stable, precise, and power saving conditions for injection molding. FCS medical parts injection molding system aims at those specific conditions to make customized design. The system adopts the most advanced "Three servo" design which include "Servo Energy Saving System", "AC Servo-motor Feeding System", and "Close-loop Servo Valve and Controller System" as the base, and has the advantages of high response, high stability, and high precision. Comparing with a traditional machine, this system is cleaner, more precision, and more saving. Furthermore, FCS AF series injection molding machine has been used for optical part production in the clean rooms, so it completely suits for the requirements of medical part industry such as clean, stable, precise, and energy saving. The display in 2010 Taipei Plas for example, the 48 cavities dental anesthesia needle covers take around 7 sec per cycle, and the throughput is 17 millions per month. This system is a specific series that FCS designs for medical parts industry. No matter for producing needles, blood absorbing tubes, blood lancets, or dialysis loop parts, FCS can satisfy all customer needs.



**TAIPEI PLAS 2010**

Taipei Int'l Plastics & Rubber Industry Show

TwTC Nangang Exhibition Hall

**Welcome to visit our booth!**

Booth No.: I415, TwTC Nangang Exhibition Hall, Taipei, Taiwan



## Great Motivation • New Definition • Mutual Prosperity



**F**  
Fast  
Response



**C**  
Customer  
Oriented



**S**  
Service  
Differentiation

**Due** to the industrial evolution and the worldwide competition, FCS will transform from an injection machine manufacturer to an injection molding turnkey solution provider. In addition, to satisfy customers' need for "quick response" and "innovative service", FCS is now acting based on "FCS Principle" which means Fast responding to customer requests, acting by Customers' orientation, and providing Service followed by different customer needs.






## 2010 CHINA PLAS Preview

**China** International Exhibition on Plastics and Rubber Industries, "CHINA PLAS" for short, which started since 1983 and keeps upgrading the scale and quality continuously. It has become Asia's Top 1 and the world's third plastics & rubber trade fair. 2010 CHINA PLAS will be held during 4/19~4/22 in Shanghai New International Expo Center, Pudong, PR China, which will be expected to have about 1,900 well-known exhibitors from 35 countries and areas, and attracts more than 110 countries, 75,000 professional visitors.

In 2010 CHINA PLAS, FCS will show high technical machines including "Two components injection molding machine, FB Series", "New Energy-Saving Double Modes Injection Molding Machine: FD-SV", "A-PACK In Mold Labeling Turnkey Solution", and "High Speed Cap Production Turnkey Solution".

### 1. A-PACK IML Turnkey Solution

This is a new IML system developed by FCS and will be first debuted in 2010 Taipei Plas. FCS values Chinese market and its developing food & packaging industries, therefore, the whole system will be moved to CHINA PLAS right after Taipei Plas. Compare with the last model, this new system improves the producing efficiency, and even evolve into a multi-function label supply module for both vacuum and static label absorbing. FCS A-PACK IML Turnkey Solution could be applied to all kinds of beverage cup, such as milk, tea, coffee, juice, and water, which consists of 4 components including AF series, hi-speed hybrid close loop injection molding machine, hot-runner mould, product stacking system and label inserting system. The system is a highly efficient production line. For example, to produce 200cc Round Cup with 4 cavities, the cycle time could be as short as 5 sec, and the throughput could be around 2 million cups per month.

### 2. Two Components-Servo Power Saving Injection Molding Machine: FB-SV Series

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. FB-SV series can reach the maximum clamping force of 1420 tons and are suitable for producing all kinds of two-component products such as mobile-phone parts, tool handles, pens, automotive lamp cover, etc. This series also can be equipped with closed loop serve valve (optional), which has high response and high repeatability.

### 3. FD-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.

### 4. High Speed Cap Production System: AN Series

The system includes triple loop injection molding machine, "AN-200", and "32 cavities mould". The triple loop design enables the injection machine to do mold opening, product ejecting and material feeding at same time. The cycle time could be shortened to 5 seconds for 32 cavities in one time and the monthly output could be more than 12 million caps.

Since our incorporation in 1974, FCS have grown to be the largest manufacturer of plastic injection molding machines in Taiwan. Our dedication to quality is highlighted by the fact that we were the first company in our industry to obtain the CE mark and ISO9001 certification. We were also awarded the certification of "It's Very Well Made In Taiwan" for many years.

FCS is now publicly traded professional injection molding machine manufacture on the Over-the-Counter Securities Exchange in Taiwan. There are three factories located at Taiwan, Donguan, and Ningbo. The sales turnover of the whole group is around 80 million USD. More than 30 service centers at different countries are ready to serve customers all over the world. The clamping force of the production line include 30 ~3500 tons.



Welcome to visit our booths.

Booth No.: W5D41

Fu Chun Shin Machinery Manufacture Co., Ltd





# Report on AP Plas 2009

**The** 11th Asian-Pacific Int'l Plastics & Rubber Industry Exhibition (AP Plas) was held at China Shanghai New International Expo Center at Nov 24<sup>th</sup> to Nov 27<sup>th</sup>, 2009. The exhibit area is 50,000sq.m, and there are around 700 overseas and local exhibitors. Due to its ten-year experience and development, and it is the only exhibition which is sponsored and supported by many national authority organizations, AP Plas has become one of the important plastics and rubber exhibition in China. This exhibition not only makes its position on "Internationalization", "High Level", "Market orientation", and "Technology Orientation", in AP Plas 2009, it was also the first time that perfectly associated by material, machining techniques, die and equipment, and machining techniques of products, and become an intact industry chain which completely showed the latest trends, new technology and new products.

After the financial crisis, the plastics machinery market condition has been revival, and many enterprises are also active to make their public appearance in the exhibition and advertisement. Meanwhile, the Chinese government proposed policies such as "Ensure economic growth", "Expand civil demand", "Adjust industrial structure" and so on, which obviously improved the Chinese economic situation. Thus, it enables enterprises to better understand the market information.

FCS (Ningbo) company had shown some eagerest needed machines at this AP Plas 2009, including "Two components injection molding machine, FB Series", and "High speed/close-loop hybrid Injection Molding Machine: AN-Series". FCS was the first manufacture who developed two components injection molding machine, with high technology and good experience, and is the top in two components injection machinery industry. 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. It also assembles patented locking systems to assure the rotary table turning to accurate position. This series are suitable for producing all kinds of two components products

AN series, the Hybrid injection molding machine combines the features of hydraulic and electric structures. On one hand, it offers the accuracy and energy-saving features of all-electric structures, another is, it's able to keep the high clamping force of hydraulic machines. In addition, AN series is featured

with AC Servo Motor for feeding material, Close Loop design with MOOG Valve for precise machine motion, oil free toggle structure for clean production and high rigid clamping structure for high-speed producing. AN series is suitable for producing thin wall product and precise electric products.

Facing the competitors all over the world, to maintain the efficiency and competitiveness is very important for plastic products manufactures. In order to promote the customer advantage and satisfy customers' need, FCS provides not just the machine and service, but also "Knowledge Based Turkey Solution". Besides the "Beverage Package Turnkey Solution" and "In Mold Decoration System" which have been well sold, FCS debuts "Medical Parts Production System" this year for medical part industry. No matter parts for needles or blood absorbing tube etc., FCS enables to provide the fast and qualified production system to satisfy your requirement.



# 2010 FCS Global Exhibitions Preview

**Fu** Chun Shin Machinery Co., Ltd. (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.

Under the attack of "financial tsunami", there have been some reorganizations in plastics and rubber industry. Due to the specific position of customization and system integration, Fu Chun Shin (FCS) has luckily overcome this chaos during 2009. To welcome the new coming 2010, FCS wish to appear in front of the world with a new face. We implement a series of creative revolutions and one of those is the exhibition display. FCS certainly will not absent from

the 2010 big events all around the world such as Taipei Plas in Taiwan, China Plas in Shanghai, and K show in Germany, etc. FCS will be displaying many innovative products, including multi-component molding system, ultra-high speed molding system, hybrid injection molding system, and various turnkey solutions.

In addition, to extend the service coverage and anticipate the growing needs of the Chinese market, FCS has successively set up production plants in Southern China (Dongguan) and Eastern China (Ningbo), thus to build a complete service network. FCS will always be your dedicated partner, offering the best and most efficient service, and the most complete injection molding solution.

Welcome your visit to FCS booth!

ITEM	1	2
EXHIBITION	China Plas 2010 (The 24rd International Exhibition on Plastics and Rubber Industries)	CIM 2010 (The 2010 China International Exhibition on Plastics and Rubber Injection Moulding Industry)
Location	New International Expo Centre (SNIEC), Shanghai	Binhai International Convention & Exhibition Centre, Tianjin
Duration	2009.Apr.19~22	2010.Sep.23~25

ITEM	1	2	3
COUNTRY	Taiwan	Mexico	Germany
EXHIBITION	2010 TAIPEI PLAS—Taipei International Plastics & Rubber Industry Show	MAGENMEXICO	K-2010
Location	Taipei World Trade Center Nangang Exhibition Hall	Mexico City	Düsseldorf
Duration	2010.Mar.5~9	2010.Mar.23~26	2010.Oct.27 ~Nov.3