

Expo 2010, the 41st World's fair, is held in Shanghai China from 2010.May.1 to 2010.Oct.31 for total 184 days. Till middle of July, There have been nearly 30 million people-times had visited, and around four hundred thousand people-times are visiting daily. This is the first time that China has held such an important global exhibition, and it's also the first Expo which locates nearest to Taiwan. For this reason, it's an Expo of influence for Shanghai, China, or even for the commercial and cultural exchanges between Taiwan and China.

World Expo originated from the fair in medieval Europe. In the beginning, the fair was just for commercial trade. Until the 19th century, the economic development was getting important and the scale of fair became bigger; more and more people and commodities were involved including economy, life, art, and philosophy...etc. Since 1820, this kind of large fair was called "Exposition".

To host the Expo has to become the member of BIE (The Bureau International des Expositions) first. The purpose of holding a World Expo, is to offer an international platform to enable all participating countries to make a wide range of communication and exchange for a

certain topic. The host country can show her wealthy and powerful condition, and increase the local tourism and economy development. The first International Exhibition was held in London in 1851, since that, the World Expositions have attained increasing prominence as grand events for economic, scientific, technological and cultural exchanges, serving as an important platform for displaying historical experience, exchanging innovative ideas, demonstrating 'esprit de corps' and looking to the future. Therefore, World Expositions are galleries of human inspirations and thoughts. However, not every world fair has successfully expressed the image of theme. Numerous World Expositions had become a large-scale museum, and some marvelous novel exhibits in these exhibitions become a permanent collection.

The theme of Expo 2010 is "Better City, Better Life," representing the common wish of the whole humankind for a better living in future urban environments. This theme represents a central concern of the international community for future policy making, urban strategies and sustainable development. The emblem, depicting the image of three people-you, me, him/her holding hands together, symbolizes the big family of mankind. Inspired by the shape of the Chinese character "世"(meaning the world), the design conveys the organizers' wish to host an Expo which is of global scale and which showcases the diversified urban cultures of the world.

Expo mascot "Haibao", which means the treasure of the sea, is created by a Taiwanese designer Wu Yongjian. The design is based on the Chinese character "人," which means people, the mascot embodies the character of Chinese culture and echoes with the designing concept of the emblem of World Expo Shanghai. Using the Chinese character as the mascot of an international event is an innovation. The structure of Chinese character, in which two strokes support each other, manifests the concept that a good life should be created by all the people. The world should be supported by "people," and people should have harmonious relationships with nature and society, so that the life in cities would be better. Expo 2010 Shanghai China will center on innovation and interaction. Innovation is the soul, while cultural interaction is an important mission of the World Expositions. In the new era, Expo 2010 Shanghai China will contribute to human-center development, scientific and technological innovation, cultural diversity and win-win cooperation for a better future, thus composing a melody with the key notes of highlighting innovation and interaction in the new century.

Have you "Expo"? Let's go and enjoy it!

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FOCUS

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K2010 – the largest International Plastic and Rubber Trade Fair, will be held from Oct. 27 to Nov. 3 in Düsseldorf Germany. In this exhibition, Fu Chun Shin (FCS) will show her injection molding system "new A-PACK In Mold Labeling Turnkey Solution" which contains high technology elements. This system has remarkable features which not even reflect the market request and industry developing trend for energy saving and environmental protection issues, and also represent the capabilities of FCS R&D and system integration.

New A-PACK In Mold Labeling Turnkey Solution

FCS successfully integrates the automatic techniques and injection molding as an A-PACK IML turnkey solution which has been launched two years and received appreciative criticisms from the customers. 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. The highlight is that the whole system gets CE certified and has a new appearance which completely suits European market requirement. FCS IML Solution 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 for showing is taking around 5 sec of cycle time, and the throughput could be around 2 million per month.

FCS is the Taiwanese largest and significant manufacturer of plastic injection mold-

ing 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 USD80 million. More than 30 service centers at different countries are 24 hours stand-by to serve customers all over the world. The clamping force of our production line includes 30 ~3500 tons.

Welcome to visit our stand!

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Report on 2010 Chinaplas

The 24th ChinaPlas held by Adsale Exhibition Services Ltd. has ended successfully in Pudong new International Exhibition Center in Shanghai on 2010/4/22. Being recognized as Asia's No.1 international plastics & rubber exhibition, CHINAPLAS 2010 has attracted 2,144 exhibitors from 32 countries and regions. On the other hand, passion of overseas visitors for CHINAPLAS 2010 has never been triggered by the volcano eruption in Iceland. The organizer has been non-stop welcoming 47 overseas delegations from industry associations and enterprises during the 4-day show such as Brazil, India, Malaysia, Thailand, Philippines, Iran, Egypt, Vietnam, Japan and Korea etc. The show has attracted a total of 81,435 trade visitors from 136 countries and regions, among them as many as 14,701 visitors are overseas buyers, which has sufficiently proven the unique charm of CHINAPLAS.



for Taiwan's enterprises.

In terms of the exhibition content, ChinaPlas has been the best among all the plastic expositions in China from the beginning. In this fair, the clamping force distributed extensively from 30 tons to 100 tons, but the small machines under 300 tons still occupied an important position. Servo power saving technology, High-speed Injection, Two component, All Electric IMM, Hybrid IMM and CAP were the main subject. And some special molding technologies were displayed, such as In Mold Labeling and so on. The finished products of molds were more diversified, from common domestic hardware products to precise electronic components, food packing containers, and automobile accessories, etc. Among which, products concerning mobile phones were the mainstream, such as screen panel, battery case, connector, ultra thin pressed key.

Fu Chun Shin (FCS) has been putting in researching and innovation, and introduces HN-SV servo power saving injection molding machine. AN-SV series servo power saving Hybrid High-speed IMM. 48 cavities for CAP was on display, which attracted many buyers' attentions. Besides, FCS Two component machine has been exhibited the double-color food container, In mold labeling technology has been shown with 4-cavity round cups. All of them are the focus of the exposition.



Hungry Feeder — New solution for the general molding defects

In the field of injection molding, there are always many molding problems such as spots, silver streaks, clouding, bubbles, voids, burning, and mold deposits, all of these are just like the nightmare for the molding industries. In order to solve these problems, industries are often required to spend efforts and cost, but it's not easy to find an effective solution. In fact, for the general injection molding equipments, the material supply is dropping by the own gravity down to the barrel. At this moment the feeding area of cylinder is full of materials, which makes the barrel a force-feed condition and with less space. Therefore, the gas, air, moisture, and even the dirt are all pushed forward and cause to defects such as spots, silver streaks, clouding, bubbles, voids, burning, and mold deposits. In additions, it also increases the screw and cylinder abrasion.

FCS strongly recommends the quantitative feeding system "Hungry Feeder", which is researched and made by Nihon Yuki Co. in Japan. This system adopts a unique "hungry molding method", with a concept of "giving as much as needed" to improve the following molding problems:

Stable & High-quality molding

Systematic controlling the feeding quantities to make the equal feeding density, help to stabilize the metering volume and reduce the weight variation, which is a great advantage for producing precise parts.

Dramatically decrease the molding problems

The material is fed slowly, so the feeding area of cylinder has enough space to exhaust gas, air and moisture, which eliminates the molding problems such as clouding, bubbles, silver streaks, voids and others.

Avoid burning of plastic material

The material won't be packed in the feeding inlet, hence it helps to balance the preheating, reduce the abnormal rise of shear heating, improve the stability of molding and temperature, and also decrease the defects of products.

Extend mold maintenance cycle

Eliminate the most contaminations and gas, and reduce the mold deposits, which extend mold maintenance cycle.

Save energy & low temperature molding

Energy saving can be achieved, because the space among feeding area of cylinder helps to reduce the cylinder & screw abrasions and the load of screw torque; the normal shear heating could help control material temperature and make molding in lower temperature possible; in addition, vacuum ejector helps to exhaust moisture and reduce the drying time of raw materials.

"Hungry Feeder" could be installed in any type of injection molding machine by a simple connect of metering signals. The operation is easy and the standard device of screw monitoring helps control the material supply. Hungry Feeder includes three models which could apply to IMM 18~2000 tons. It also could provide customized model for higher clamping force or specific IMM.

As an injection molding solution provider, FCS is very proud to introduce this excellent system to our customers. For any further information about Hungry Feeder, please don't hesitate to contact FCS through Email: fcs@fcs.com.tw.



Injection Molding Machine

Hungry Feeder(HF-II)

FCS IS ALWAYS WITH YOU !

FCS launched 'Tri-Servo' Hybrid Injection Molding Machine

Because of the global greenhouse effect and more natural disaster had happened, every country now pays much attention on the environmental issues. Besides the "Earth Hour" activity, more and more industries and machinery manufacturers are launching environmental friendly systems to save users' energy and costs.

FCS has been doing efforts to develop the systems for energy saving and environmental protection. Since 2006, FCS adopts "Multi-Connection Pump" as standard device which could save 30% energy. From 2007, FCS unveiled "Servo Power-Saving Hybrid Injection Molding Machine" which saves 70% energy, meanwhile, FCS even started helping custom-

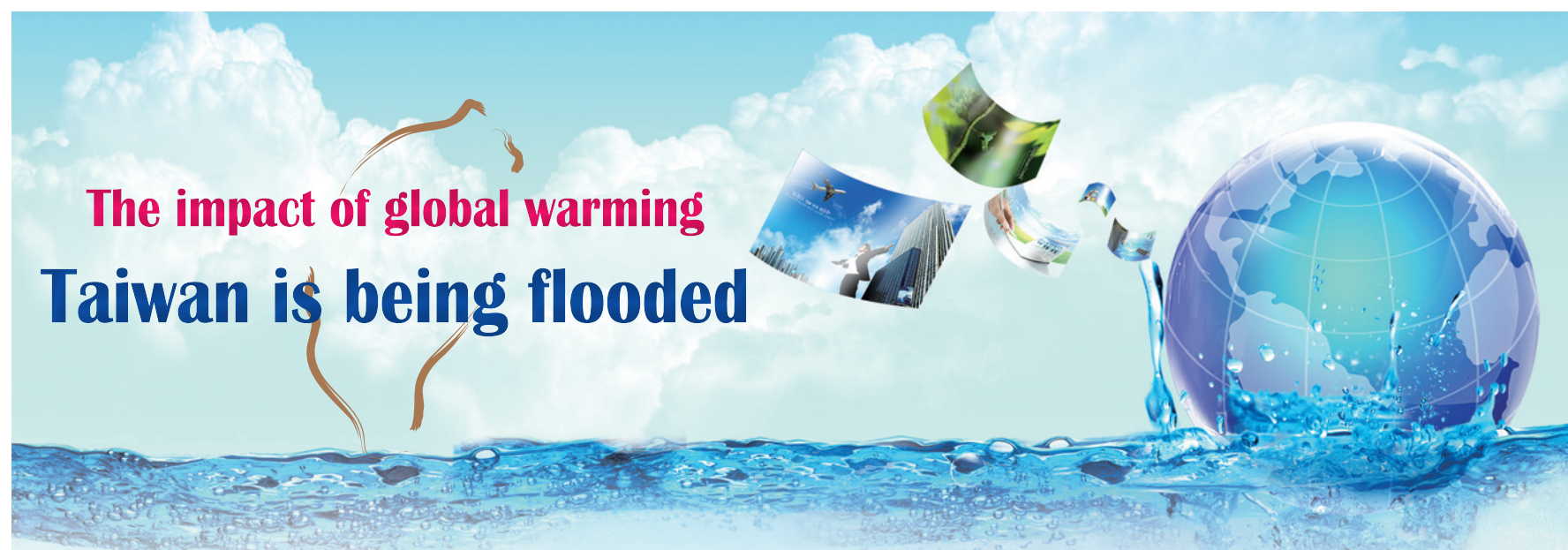


ers to upgrade their old machines to servo machines. And in Taipeiplas 2010, FCS "Tri-Servo Hybrid Injection molding machine" made a debut.

This injection machine combined three servo control system. The first one is 'servo motor' for feeding material. It is adopted for control material feeding precisely and also saving energy. The second one is 'MOOG close loop servo valve' for controlling injection action. By the servo close loop controlling, the machine can work with highly repeatability and ensure high yield rate. The third part is substituting the electric motor by 'servo motor'. The servo motor will work only when needed thus the energy consumption will be less than traditional motor, and it can also increase the precision of machine motion. In addition, due to the features of servo motor, the machine needs less cooling water than traditional one, hence it can save more energy. The high rigid structure is designed for working under high pressure and high speed molding, therefore this machine endures both the lifespan of machine and mold, and also the production efficiency.

Furthermore, the particularities of hybrid injection machine could solve the problems from servo motor, such as the injection speed will be limited or the clamping force sometimes will be unstable when doing injection with high speed or high pressure. And the efficiency of energy saving is more like the performance of servo motor. In conclusion, "Tri-Servo Hybrid Injection Molding Machine" is your best choice for power saving.

The impact of global warming Taiwan is being flooded



For the past few years, the global climate has been changed quickly and unbelievably. There used to be distinct seasonal variation in Taiwan but now practically to be left over only summer and winter. Such changes not happened in Taiwan only, and also not caused in one day only.

2009. Aug.08, typhoon Morakot attacked Taiwan and caused serious damages on people's lives, properties of the southern part, and the overall economy. Although being in the same island, people in north didn't realize this disaster had serious destroyed "Shiao Lin Village" in Kaohsiung until seeing from the media. After Morakot has gone for one month, Taiwan we can see from Google Map is brown color with landslides everywhere instead of previous green landscapes.

Dear my friends, do you think this is the worst situation? Not really. During 2009. Apr. to Sep., many typhoons did not come directly toward Taiwan, but went straight to Philippines. The torrential rain again and again caused local people to drift and wander about. After the first calamity, while people still had no enough time to do recondition and to recover from the infinite pain, there came another disaster.

While people were suffering from flood in Asia, the other end of the earth, Africa, had suffered the worst drought. Animals, plants and mankind wrestled with the nature, and attempted to find some water or a bit rhizome of plant from the land that even grown no grass at all. Except bringing famine and death, drought buries the seed which causes forest fire and sandstorm.

Dry climate and gradually rising temperature successively made Australia, America, and

Europe, etc. the incident of forest fire, and the hot weather made the fire-fighting work more difficult. The forest that disappeared rapidly because of fire has lost the function of regulating the temperature, and made a large stretch of yellowish-brown topsoil exposes. When the monsoon came, people all over the world had experienced the 'red Sydney' at end of last November.

In one month, while people were looking forward to Christmas & New Year holidays, through the media, we have seen surprising situation: Everywhere was all snowy which caused the crops and animal husbandry suffered heavy losses. Many countries had announced one after another that the locality had reached the minimum temperature since decades or even a century. This is a warning from the nature, but a lot of people choose to ignore it.

The Convention in Copenhagen of 2009, we sent the expectation that all the countries in the meeting could reach an agreement with saving energy and reducing carbon emissions, to slow down the speed of global warming. Unfortunately, there was no expecting result from this conference. Even so, to slow down the speed of global warming is an urgent action. So, we have to do our best for protecting our environment, such as growing trees, turning off the lights after use, pulling out the plugs, reducing the use of air-conditioner, and taking public transportation instead of driving, etc. We can do the actions anytime anywhere for protecting the earth.

No matter you are a political personage, entrepreneur, or common person, you can do something for the beautiful earth that we live. Use your belief and action to influence people around us, and then we can change this world.

FCS IS ALWAYS WITH YOU !