

newsletter

Gas Injection Worldwide

GIWW Issue 1 2007

GIWW is born!

Gas Injection Worldwide is the trading name and a division of Gas Injection HK Company Ltd; it has been established to support customers worldwide. GIWW is being administered in Hong Kong with management of sales and customer services based in Europe as well as assembly of some of its equipment.

GIHK is probably the largest supplier of equipment and technology for gas assisted molding worldwide in terms of gas controller units installed. Since its start in 1995 it has sold over 2000 gas controllers to over 500 customers in industries ranging from TV and computer enclosures to automotive and domestic appliances.

GIWW is now able to offer to worldwide customers a comprehensive range of gas pressure controllers, high pressure compressor systems, nitrogen generators and accessories, all of the highest quality, CE marked, at competitive prices and lower operating costs.



GIWW is able to offer technical service before and after sales to customers through its network of distributors and agents trained by GIWW in the operation and maintenance of equipment, and in the technology of gas assisted molding (GAM). This service is supported by engineers and technicians of both GIHK in Hong Kong and GIWW in Europe.

Plastics Industry Award for GHK...

Gas Injection HK Co Ltd has received a prestigious award for making 1 of 20 "outstanding contributions" to the Chinese plastics industry over the last 10 years.

GIHK was founded in 1995 by its current managing Director, William Yung, and is recognised as a leader in the introduction of Gas Assisted Molding technology and equipment to plastic molders.

William Yung said "I am very pleased we have been rewarded for our hard work in helping Chinese plastics manufacturers to benefit from this important worldwide technology."

Initially, gas assisted molding was shown to improve the quality, reduce costs and enable design improvements for television cabinets. Today most LCD TV and computer monitors are benefitting from the use of GAM. However, the fastest growing application areas for the technology are the automotive, domestic appliance and white goods industries. Many internal and external automotive door handles are designed for the process as are most refrigerator handles.

Raymond Foad to lead worldwide expansion

GIWW has appointed Raymond Foad as sales director. The former market manager for Cinpres Gas Injection Ltd, will lead a worldwide expansion of the company.

Raymond Foad said: "I see this appointment as a great opportunity to further develop the market for GAM worldwide. The process is now well established technically. However the uptake by the global molding industry has been relatively slow, partly due to molders not fully understanding the benefits achievable."

Managing director William Yung said: "We are delighted Raymond Foad has joined GIWW to lead our worldwide expansion."

"His extensive technical and market experience will be crucial to the success of our global ambition."



Foad is a well known contributor of technical papers on the technology at international conferences, seminars and exhibitions. He has been responsible for the development of several new GAM applications which are now in common use.

Did you know?

In 2006 over 30 million front and rear television cabinet moldings were manufactured using equipment supplied by GIHK.



GI Molds the way

GIWW has established a service to be designated GI Molds, for assisting customers to procure high quality molds at competitive costs, with comparatively short lead times.

Customers may also benefit from GIWW expertise and consultancy when applied to gas assisted molding, i.e. when finalising the design of components and tools, GI Molds can

include CAE flow analysis of plastic and gas.

GI Molds has established close working relationships with toolmakers based in China who have successful track records in the design and manufacture of molds of international quality standards, produced with state of the art technology and machinery. GI Molds is able to select and offer its customers introductions to toolmakers with specialist and successful experience for products including, TV and computer cabinets, automotive, air conditioners, white goods, furniture, office equipment and others.

GI Molds monitors the progress of tool design and manufacture and then supervises mold trials when requested by and on behalf of customers. This may include the molding of early production quantities.



Ken Crow appointed Technical Manager of GIWW

Ken Crow has been appointed as Technical Manager of Gas Injection Worldwide, GIWW commencing 1st January 2007.

Prior to his appointment Ken was senior process consultant for Cinpres Gas Injection Limited, a position he held for more than ten years during which time he built an impressive reputation within the plastics industry for providing successful and innovative solutions for gas assisted molding worldwide.

His experience in preparing design feasibility studies and his "hands on" approach to process support will help molders and end users introduce many new gas assisted applications around the world.

Ken will be based in the UK from where he will be supporting GIWW customers on a worldwide basis at all stages of their gas assisted molding projects. He will also provide an important technical support function for Raymond Foad whose appointment as GIWW Sales Director was announced earlier in 2006.

William Yung, GIWW's MD, said "I welcome Ken as an important addition to the GIWW team and we will benefit from his wide experience and successful track record."



Ken Crow said "I am looking forward to being able to further develop the use of gas assisted molding for both well established and entirely new applications."

Did you know?

GIWW will prepare a FREE GAM feasibility appraisal on any of your products. To find out more email us at: enquiries@gasinjection-ww.com

GIWW TO THE RESCUE!

At GIWW we have the flexibility and know-how to respond quickly to customer demands.

Recently a European molder placed enquiries for a single gas pressure controller with five individually controlled gas output circuits (previously controllers with up to only four circuits were available).

GIWW Engineers led by GIHK Engineering Director, Yip Leung responded and within 10 days had designed and prepared a prototype with extended hardware and software, which is now designated GPC SF-5.

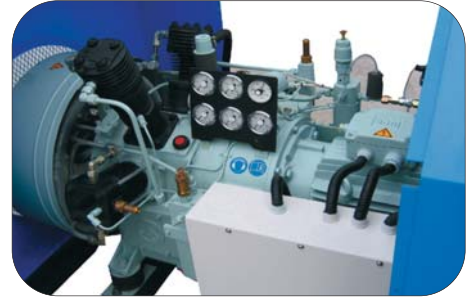
Yip Leung commented "In future if required by customers a controller with up to eight output circuits could be available. I hope this further demonstrates GIWW willingness and ability to respond quickly to customer needs".

SAUER GRANTS EXCLUSIVITY!

Sauer has granted GIHK / GIWW exclusive worldwide sales of their high pressure compressors for the plastic processing industry.

GIHK selected the German compressor manufacturer Sauer for its compressor blocks after conducting extensive comparative field trials under production conditions. The Sauer units were found to provide a significantly more reliable performance with longer maintenance intervals than other similar compressors. When related to comparable Nitrogen output flow rates, GIWW systems are competitive in both investment and operational costs.

GIHK / GIWW uses Sauer compressors in their HPCOM and HPCOM T series high pressure nitrogen compressor systems.



HPCOM... increased outputs



GIHK and GIWW have recently added an HPCOM 60 to their range of high pressure compressor systems. It outputs nitrogen at the rate of 1000nl per minute (60nm²/hour) at up to 350 bar pressure. This is normally suitable for supplying high pressure nitrogen for as many as six moulding machines producing TV screen enclosures or similar products.

Nitrogen Generators offer even greater flexibility

GIWW SPN Nitrogen Generators, which are based on the PSA – pressure swing adsorption technology have output capacities of between 200 and 1000nl/per minute with input air pressures of 6 to 8bar. Experienced gained by GIHK customers at over 200 installations has confirmed PSA to be preferable to the membrane technology for gas assisted moulding applications. They offer longer life and when required, higher purities upto 99.99%.

Outputs can be increased by up to 25% when air input pressures are raised to 10bar.



HPCOM T TAKES LESS FLOOR SPACE

GIWW has now added HPCOM18T and 21T compressor systems with output flow rates of 300 and 400nl per minute at pressures optionally up to 400bar. The 18T and 21T systems are based on compressors with vertical axis construction with consequent reductions in floor space and further improvements in balanced mechanical operation i.e. with exceptionally low vibrations.

GIWW Sales Director, Raymond Foad commented "They are worldwide winners when comparing investment and operational costs with other high pressure nitrogen compressors".



Did you know?

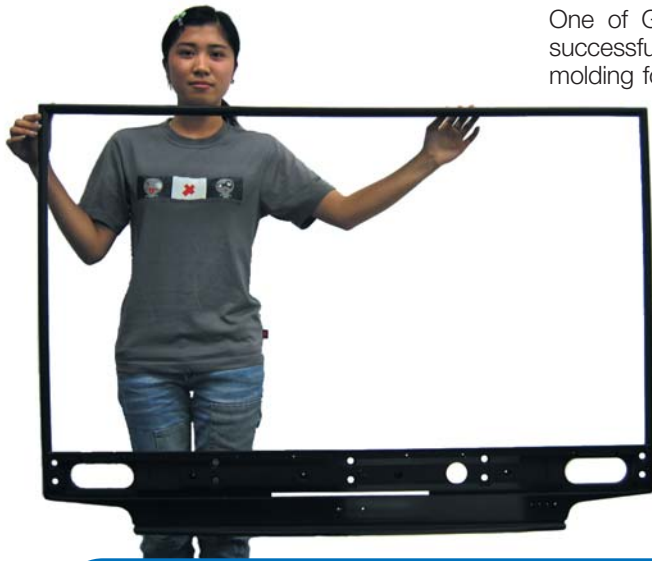
In 2006 GIHK installed over 100 high pressure compressor systems using Sauer compressor blocks.

HPCOM & HPCOM T - flexible and versatile...

Duplex configurations for operating two compressors side by side provide double the maximum outputs and/or provide maintenance standby for easy servicing.



Is this the biggest yet?



One of GIHKs customers has recently successfully applied internal gas assisted molding for production of a 57" LCD TV cabinet front molding. Requirements included, a good surface finish with no sink marks, dimensional stability i.e. flatness and a short as possible cycle time. William Yung said, "Our molding technicians were able to advise the customer on how many and where to position plastic feed gates and gas injectors before T1 molding trial, which was entirely successful."

The benefits of gas assisted molding

- **No sink marks**
Improved surface finish
- **Less weight**
Thinner and hollow sections
- **Less injection pressure**
Less energy, smaller machines
- **Less stress**
Less warpage and distortion
- **Greater design freedom**
More cost savings

Editors Comments

CINPRES CASE DISMISSED...

Cinpres law suit claiming ownership of GAIN Technologies UK 'Overspill' patent was dismissed by a London High Court Judge, who refused Cinpres permission to appeal against this judgement and with costs payable by Cinpres.

"The 'Overspill' patents expire in 2008!"

GAIN had previously opposed Cinpres' US PEP - Plastic Expulsion Process patent resulting in claims 1 to 16 being revoked by the US patent examiner. It is now subject to a second appeal by Cinpres.

In November 2006, GAIN, citing the same prior art, filed an admissible opposition to the European PEP patent. Cinpres was invited on 5 January 2007 to submit a response.

Competitively priced accessories

GIWW is able to offer a comprehensive range of in-mold gas injectors and molding machine shut-off nozzles with gas injection.

For more information on the company and our range of products, please visit our website at www.gas injection-ww.com



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Contact us

If you require further information regarding any of the articles in this newsletter, then contact our Editor - Raymond Foad.
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