



Gas Injection Worldwide

Solutions for a world of molding applications



customer services benefit from experience



Gas Injection Worldwide



Gas Injection Worldwide is the trading name and a division of Gas Injection HK Co Ltd. and has been established to support GIHK customers outside of Asia.

GIHK, founded in 1995 by its MD William Yung, is the market leader in Asia and one of the world's largest providers of equipment, technology and consultancy for Gas Assisted Molding (GAM). The company has developed a range of products that have proved to be robust and reliable whilst at the same time versatile and flexible in operation. Systems that have been designed for small, medium and large projects and offer investment cost savings.

All GIWW equipment has been developed using the most

advanced and reliable components including European valves & compressors and electronics from USA.

GIWW systems have been installed at more than 500 companies across all of the major industrial sectors including automotive, TV, computing and domestic appliances.

Gas Injection Worldwide is now able to offer customers across the world the complete range of gas injection equipment including Gas Pressure Controllers, High Pressure Compressors Systems, Nitrogen Generators and a comprehensive range of accessories. Customers therefore benefit from a tried and tested range of equipment and cost effective assembly.

GIWW Customer Services

In addition to the competitively priced and comprehensive range of products offered by GIWW, customers can also benefit from the in depth knowledge and years of experience acquired when supporting GAM processes across the major market sectors. GIWW is able to offer its customers an unrivalled range of technical services which include the following:

- Localised customer support services from world-wide trained agents and access to GIWW engineers
- Pre-sales advice and consultancy on applications of GAM and including, when required, Product Assessment Reports with CAE flow analysis
- Assisting customers in the procurement of mold tools from highly qualified tool makers at competitive prices and lead times with the added advantage of GIWW expertise in GAM
- Installation and training in use of equipment and GAM processes
- Plastic Flow Analysis & Gas Flow Simulation using specialist Computer Aided Engineering (CAE) software
- Maintenance & Servicing of equipment when required
- Mold trials for small, medium and large installations
- After-sales support and advice on new projects to assist customers in applying GAM technology
- After-sales customer updates advising of the latest GAM developments

competitive, space saving
versatile, reliable

Nitrogen Gas Generators and High Pressure Compressor Systems



HPCOM Series of high pressure electric driven reciprocating piston compressors with output flow rates from 350-1066 NL/min and output pressures up to 350 BarG. Longer maintenance intervals (2,000 hrs) ensure maximum utilisation and lower operating costs.

Vertical compressor configurations are available for some models (HPCOM 18-21T) to minimise floor space requirements and with optional 400 BarG pressure output and maintenance intervals upto 2500 hours.



SPN Series of PSA Nitrogen Generators with standard output flow rates from 250-1000 NL/min and Nitrogen purities from 98 to 99.99%. An Oxygen analyser and alarm signal are provided with each SPN system.

High quality compressed air filtration ensures trouble free running



For more information and to download individual product data sheets, please visit our website at www.gasinjection-ww.com

flexible, efficient,
compact, cost effective

Gas Pressure Controllers and Pressure Booster Systems

GPC SF Series Gas Controller with 2-4 gas valves available. The GPC SF controller is a mobile unit with an integrated control system with a touch screen and function keys. Each GPC SF controller is supplied with two injection molding machine interfaces to provide dual machine control.



GB A5 Gas Booster system with an output flow rate of 100NI/min and maximum Nitrogen pressure of 350 BarG. For use with FX or SF controller, which can be housed in one space-saving cabinet.



GPC FX Series Gas Controller with either one or two control valves and a portable hand-held control panel.

lower investment costs and improved product quality



Why Gas Assisted Molding?

Developed in the early 1980's Gas Assisted Molding has revolutionized the design and manufacture of many plastic molded products. The process is now firmly established as an important component of the global injection molding industry.

The process is used across a wide range of market sectors including automotive, teletronics, computing, domestic appliances and materials handling because it gives the component designer greater freedom, the molder lower investment costs and more control over the quality of the finished part, and most importantly it provides the end user significant cost savings.

Design Freedom

1. Functional integration of multiple plastic parts into a single assembly
2. Ability to combine thick and thin wall sections in the same part
3. Improved rigidity using hollow box sections

Improved Part Quality

1. Reduced warpage and distortion due to less differential shrinkage
2. Elimination of sink marks
3. Less flow marks and weld lines due to the need for fewer injection points

Reduced Manufacturing Costs

1. Lower overall weight of the finished parts due to reduced wall sections
2. Shorter cycle times due to thinner wall sections and shorter cooling times
3. Less energy costs due to reduced plastic packing pressure, therefore lower mold clamp force
4. Reduced assembly costs due to part integration

Lower Investment Costs

1. Smaller mold clamp force due to lower injection pressures and therefore smaller injection molding machines
2. Reduced tooling cost due to lower injection pressures
3. Lower maintenance costs due to less wear and tear on the molds from lower injection pressures

every plastic molder
should be aware of GAM

AUTHORISED DISTRIBUTOR / AGENT

For more information and to
download individual product data
sheets, please visit our website at
www.gas injection-ww.com



Gas Injection Worldwide

Unit 1, 7/F., Block B, New Trade Plaza, 6 On Ping Street, Shatin, N.T., Hong Kong

Tel: (852) 26010200, (852) 26010274 Fax: (852) 26010554

Email: sales@gas injection-ww.com Web: www.gas injection-ww.com

Gas Injection Worldwide and GIWW are trading names of Gas Injection HK Co. Ltd