



## World leaders in the design and delivery of turnkey projects to the industrial gas industry

- Industrial Gas Cylinder Filling • Medical Gas Cylinder Filling • Speciality Gas Cylinder Filling
- Mobile Gas Solutions • Offshore Solutions • Gas Generation & Distribution
- Bespoke Gas Solutions • Load and Offload Solutions • Consultancy Services



## Why iGAS...

### INDEPENDENT

iGAS is a fully independent company, working with all gas producers and end users to provide best equipment and project solutions. Independent means we can select the most cost effective equipment for our Clients requirements.



## About iGAS

**Established in 2001, iGAS is a fully independent company, working with all global gas producers and end users to provide World Leading Solutions to all industrial (including medical and speciality) gas projects.**

Having all worked within major Industrial Gas companies, the iGAS Directors bring over 100 years of cumulative experience and knowledge to our projects. We pride ourselves on Client partnering and providing best solutions to all projects taking into consideration all aspects of cost, resource and ROI.

As a project develops and through the lifecycle, various situations change: scope; market forces; logistics; or world economy. At iGAS we are a focused, dynamic, committed team and the Client has direct access to the Directors. This culture allows us to adapt quickly to the needs of our Clients.

iGAS are a complete solutions provider, with each solution tailored to deliver the best, most cost effective and suitable equipment and technologies on offer, thus delivering maximum benefit to you, our Client from initial investment through the complete lifetime ownership.

We deliver our projects utilising our in-house tool iProject, which ensures our Clients receive thorough documentation to the highest standards that satisfy their own internal standards and that of their local authorities. Our Engineering tool provides 3D plant modelling and auto generation of all the system piping design, allowing clear visualisation of the entire plant and correct ordering of all materials.

Our modular system approach allows for cylinder filling to take place on an individual or multiple tasking basis. We have created a unique scalable system to be used for both filling and pumping gas. This results in a reduction in commissioning time and resource. AiFill allows equipment to be programmed remotely using a number of platforms including PC, tablet, and mobile from anywhere in the world via a secure connection.

Our web-based database system, iSpares, allows access to technical data, health and safety and datasheets for all items used in our projects. The centralisation of the information ensures that the most up to date data is available to field/site engineers. There is no comparable system for the industry in the marketplace. In addition iGAS hold a selection of critical spares to support all of our service contract Clients.



**iGAS Technology Solutions are world leaders in the design, engineering and delivery of turnkey projects**

**to the Industrial Gases sector, providing guaranteed, risk free solutions to maximise the return on investment for our customers.**

## Delivering Projects

**We deliver our projects utilising our in-house tool iProject, which ensures our Clients receive thorough documentation to the highest standards that satisfy their own internal standards and that of their local authorities.**

iProject is certified to ISO9001 and is CDM compliant and is continuously being reviewed and improved by internal and external auditing. It provides the road map that all projects follow and is structured with appropriate documents (version controlled) and templates using Microsoft SharePoint, allowing full visibility and access, wherever located, in a virtual environment.

Following Client order, a Project Establishment package is sent to the Client for approval. This details the quality plan, project deliverables, change control procedure and the team list.

Each project is allocated a team matching the skills and qualities required to deliver a successful project. The Client receives the Competency Profiles for each member along with their specific project role.

## Why iGAS...

### **FLEXIBLE**

As a project develops and through the lifetime of a plant situations change. Scope may vary due to market forces, logistics or changes in the world economy. At iGAS we are a flexible and committed team and the Client has direct access to the Directors allowing us to adapt quickly to your needs.



## Why iGAS...

### **EXPERIENCE**

All iGAS Directors have worked within major industrial Gas companies leading to over 100 years of cumulative experience and knowledge and we pride ourselves on Client partnering.

## iGAS Capabilities

- Project Management
- Process Engineering
- Safety Engineering
- Mechanical Engineering
- Instrument Engineering
- Electrical Engineering
- Software Engineering
- Plant Modelling
- Draughting



## Why iGAS...

### iPROJECT

Delivering Industrial Gas projects, on time, on budget and to our clients exacting requirements is key to our market position and on-going, long term partnership with our clients.



## Why iGAS...

### ENGINEERING

We ensure our Clients are able to fully visualise our projects before delivery. This is done through our internally customised design packages. Having this visualisation ensures our Clients expectations are met.

## Our Solutions

### INDUSTRIAL GAS CYLINDER FILLING

- Manual, semi-automatic, fully automatic
- Filling techniques; Pressure temperature compensated, Gravimetric, Mass Flow, Dynamic blending, "Winter Fill"
- Single gas and mixtures filling
- Factory built and tested units for 'plug and play'
- Modular design, tailored to suit
- Filling pressures up to 450bar (design pressures up to 600bar)
- O2 shock tested products (BAM and/or CTE)
- Turnkey or part turnkey
- Sequential or blended mixtures filling
- Low cost of ownership
- Engineered and fully documented

### MEDICAL GAS CYLINDER FILLING

- Integration of Design, Installation and Operation Qualification for Medical Projects
- Manual, semi-automatic, fully automatic
- Filling techniques; Pressure temperature compensated, Gravimetric, Mass Flow, Dynamic blending, "Winter Fill"
- Single gas and mixtures filling
- Factory built and tested units for 'plug and play'
- Modular design, tailored to suit
- Filling pressures up to 450bar (design pressures up to 600bar)
- O2 shock tested products (BAM and/or CTE), assembled in cleanroom conditions
- Turnkey or part turnkey
- Sequential or blended mixtures filling
- Low cost of ownership
- Engineered and fully documented

### SPECIAL GASES CYLINDER FILLING

iGAS provides fully engineering solutions for Speciality Gases. For Clients new to Speciality Gases we provide initial consults and feasibility studies to allow better understanding of what can be expected in operating such a plant efficiently and safely.

### MOBILE GAS SOLUTIONS

Our mobile system solutions take our industrial gas systems and make them suitable for environments that are generally regarded as impracticable locations for static plants. The Mobile Systems we can offer cover: cylinder filling; pumping and compression; vapourisation; gas generation; and gas mixing.

### OFFSHORE SOLUTIONS

iGAS have been installing on-board gas schemes for many years providing solutions for: Generation; Distribution; Mixing; Analysis; sampling systems.

## **GAS GENERATION AND DISTRIBUTION**

Our Gas Generation Systems take our industrial gas experience to provide solutions for the effective and efficient generation of different gases for various applications and can be based on a 20ft Hi-Cube Container (Offshore DNV/ISO/BS EN) for: O2 Generation and Compression; Acetylene Generation; and N2 Generation and H2 Mixing.



## **BESPOKE GAS SYSTEMS**

iGAS have many years of experience working with the industrial gas industry. There is no project we will not consider. If you have a specific requirement that you would like to discuss with us, we will be happy to review your request and work with you to find a solution.

## **LOAD AND OFFLOAD SOLUTIONS**

Our Trailer Filling and Offloading Systems are based on our considerable experience in developing solutions to meet the requirements of our Clients.

## **CONSULTANCY SERVICES**

Whether you require a Project Engineer for a day or you need a complete plant designed and built from a 'green field' site, iGAS is the ideal industry partner for you, with extensive

experience and expertise in the gases industry. A range of services can be provided from: feasibility studies and proposal development; instrument, mechanical, electrical, process, civil engineering and design; project management; construction management; consultancy; commissioning; and validation.

## **Why iGAS...**

### **AIFILL**

Our modular system approach allows for cylinder filling to take place on an individual or multiple simultaneous basis. We have created a unique scale-able system to be used for both filling and pumping gas.

## **Why iGAS...**

### **LIFE TIME COSTS**

iGAS are not tied to any specific manufacturers. This allows us to always be aware of the best, most cost effective and most suitable equipment, providing our Clients with the best technologies on offer, to maximise benefit from initial and lifetime cost modelling.



## Why iGAS...

### **iGAS SYSTEM SUPPORT**

At iGAS we build strong, long term partnerships with all our customers in order that the equipment supplied, is professionally supported, in a cost effective, responsive and timely manner. Maximising plant availability is our objective, which we achieve by Remote Support, telephone support and solving majority of site issues quickly without need for a site visit.



## iGAS Equipment Supply and Spare Parts

Here at iGAS we place importance on the continued support of all our customers. To meet these demands we have developed an efficient system that can help you get what you need as quickly as possible.

Our experienced engineers have the knowledge to advise and procure the items you need to keep your plant running smoothly. Access to strategically placed stores means that we can get our products to anywhere in the world within a week.

Something we don't stock? Then we can source and deliver in the shortest time without causing inconvenience to yourself.

The partnerships we have formed with strategic suppliers give us access to discounts that are not normally available to end users, meaning we can purchase, ship and manage products very competitively.

To find out more on our spare parts and equipment supply, please contact [spares@igas-ts.com](mailto:spares@igas-ts.com).

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At iGAS we build strong, long term partnerships with all our customers in order that the equipment supplied, is professionally supported, in a cost effective, responsive and timely manner. Maximising plant availability is our objective, which we achieve by Remote Support, telephone support and solving majority of site issues quickly without need for a site visit.

Also, by utilising our global strategic manufacturing partners who continually strive to provide pioneering technology in order to maintain & enhance the performance of your plant.

Our offering is matched to your specific needs and includes written schemes of examination, annual inspections, service / preventative maintenance plans and much more. Please call us to discuss your particular needs. Our simple aim is to exceed your highest expectations.

We look forward to helping you in the future and for site support please email us at [spares@igas-ts.com](mailto:spares@igas-ts.com)

## Why iGAS...

### **iGAS EQUIPMENT SUPPLY AND SPARE PARTS**

Here at iGAS we place importance on the continued support of all our customers. To meet these demands we have developed an efficient system that can help you get what you need as quickly as possible.

## Our Project Locations





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