

On Site Hydrogen Generation Systems

GAS TEC®

On-site production of hydrogen gas for welding, cutting & heating applications

Benefits

- ✓ Economical - saves 20 to 30% over cylinders gas cost
- ✓ Convenient - reduced cylinder handling
- ✓ Environmentally friendly
- ✓ Safe - reduced combustible gas inventory
- ✓ Improves productivity

Features

- ✓ High energy efficiency
- ✓ Built in flash back arrestor, proven safety features
- ✓ Rugged & durable design
- ✓ Easy to install & maintain
- ✓ Gas on demand technology
- ✓ Reliable, continuous round the clock operations
- ✓ User friendly, fully automated controls

Applications

- ✓ Brazing
- ✓ Soldering
- ✓ Cutting
- ✓ Heating
- ✓ Flame polishing
- ✓ Metal spraying

CE H₂

Hydrogen for Energy Applications

GasTec On-site Hydrogen Generators are fully automated, low maintenance systems that produce hydrogen gas from electrolysis of water

The system is designed to replace acetylene & LP gases in welding, cutting & heating applications.

Environmentally Friendly

Hydrogen is non-toxic and environmentally friendly, making it a better & safer fuel.

Gas On Demand

GasTec Hydrogen Generator is design to produce hydrogen on demand. This eliminates stored hydrogen and enhances overall system safety.

Reduced Cylinder Handling

With on-site gas generation technology, the cost and hazard associated with storage, handling and transportation of combustible gas cylinders are eliminated.

Safe

GasTec Hydrogen Generator is CE certified for industrial applications. Its rugged construction makes it suitable for the most demanding workshop environment.

Easy Installation

All products are self contained and fully pre-tested, allowing for fast and easy installation at site.

Modular & Fully Scalable

Multiple Generators can be connected in parallel to supply the needs of a large profile cutting machine or centralized piping system.

Factory Backed Warranty & Service

GasTec Generators carry a 12 month warranty and is backed by an extensive network of distributors.

Convenient & Economical

The GasTec Generator is convenient and offers attractive savings over cylinder gas supplies.



GasTec GT Series Hydrogen Generators

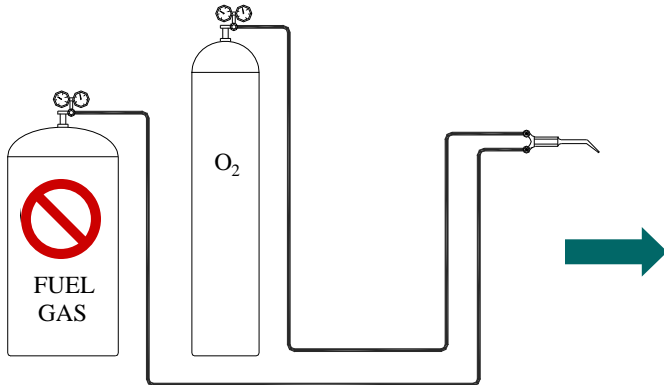
Hydrogen Generator

Specifications

Models	Output (Nm ³ /hr)	# of Cutting Torch (25mm plate)	DI Water Consumption (l/hr)	Modifier Consumption (l/hr)	Power Consumption (kW)	Dimension (LxWxH, m)	Weight (Kg)
GT1	1	Jewelry App	0.7	0.25	3.5	0.7 x 0.5 x 1.0	120
GT2	2	1	1.4	0.50	7.0	0.7 x 0.5 x 1.0	200
GT3	3	2	2.1	0.75	10.5	0.7 x 0.6 x 1.0	300
GT4	4	3	2.8	1.00	14.0	0.7 x 0.6 x 1.1	400

- Performance based on 25 °C, ambient.
- Modifier consumption base on 25 °C @ 0.25 lit / m³ H₂
- Output pressure, 0 – 3 bar user adjustable
- Max internal pressure, 3.5 bar
- Gas composition, 33% oxygen & 67% hydrogen
- System requires de-mineralized water, min. 200kOhm/cm
- Ambient temperature limits, 5 – 40 °C
- Power supply, 200-240V, 380-440V +/- 10%, 50/60 Hz

Typical Arrangement



Replacement of Acetylene Gas

- Acetylene gas cylinder is replaced with a GasTec Hydrogen Generator.
- There are no changes to the standard oxyacetylene cutting torch however, for optimum performance, we recommend using GasTec hydrogen cutting nozzles.
- For cutting applications, external oxygen is required. This can be obtained from cylinders or a GasTec Oxygen Generator.



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