

MAXIMATOR®

Maximum Pressure.

High Pressure Technology • Testing Equipment
Hydraulics • Pneumatics



Revolutionary H2 Gas Booster Series – GFS

up to 900 bar - the most flexible gas filling system

MAXIMATOR Gas Filling Station - Series GFS

GFS - Gas Filling Stations

Cost and energy efficient gas filling solution

The Maximator GFS Series are standalone Gas Filling Stations for small scale applications with build in air compression.

With the new GFS technology, we are proud to introduce an efficient way of Hydrogen compression. The GFS solution is based on our X-TOWER module with all the advantages.

This additional feature on the one hand increases energy and cost efficiency and on the other hand optimizes the overall availability of the Gas Filling Systems. The GFS is a plug & boost solution from Maximator which is covering all requirement.

The interface connection for the customer is reduced to a minimum of H2 supply, H2 outlet, N2 supply and electrical power. All other modules for a safe and efficient compression are already integrated. A web-based access to the control system offers independent control with your mobile PC or smartphone.

We designed this gas filling station especially for small scale filling processes for e.g. Hydrogen refuelling in laboratory applications, drones, small fleet FCEV's and home energy storage solutions and many more. smartphone.

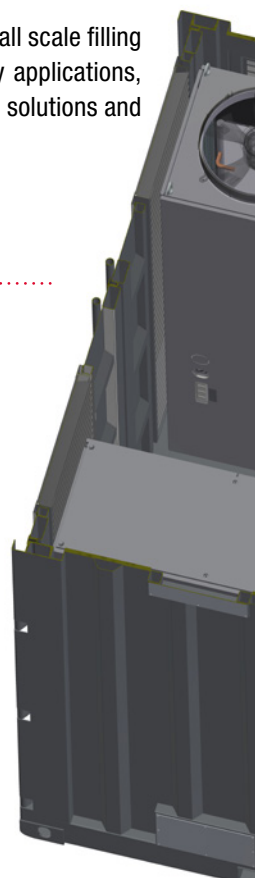


Inside

The **Maximator X-TOWER** is a modular Gas Compression System, specifically designed for Hydrogen compression up to 900 bar with scalable volume flow.

- » Maximum flexibility
- » Maximum efficiency
- » Maximum safety

... than ever before.



Safety

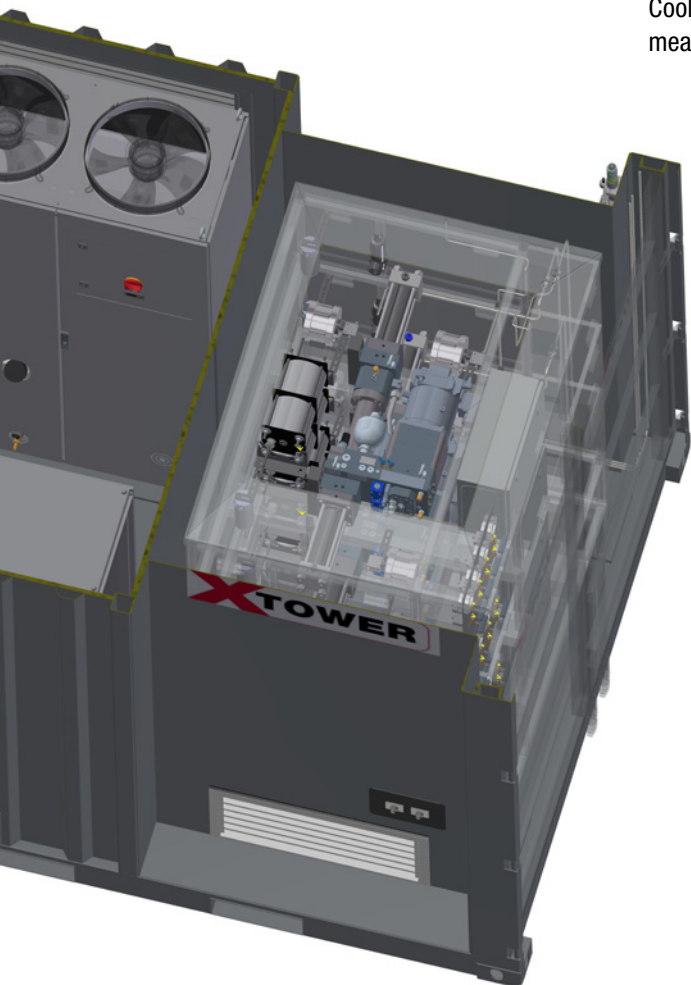
- » Nitrogen purging
- » Temperature control
- » Pressure control
- » gas detection
- » active ventilation

... are only some of our safety features to increase the acceptance of operator and integrator.



Water Cooling

Intelligent and efficient new cooling concept keep the gas temperature under control. The GFS is having the Water chill system on board with an independent cooling water controller module to split the flow of chilled water to the required position. Cooling water temperature and flow are measured and supervised by the PLC.



Service meets success

Reducing of downtime is one of the biggest advantages for our Gas Filling Station concept.

The modular design allow to change modules instead of maintaining components. MAXIMATOR is providing complete tested and certified modules to exchange the used module.

With standardized electrical and mechanical connection, the maintenance section can be planned in advance and realized in a short term.

	GFS2500	GFS5000	GFS9000
Pressure class	500 bar	500 bar	900 bar
X-Modules	X15/X75	X15/2xX75	X15/X30/X75
Mass flow (H ₂)*	5 kg/h	10 kg/h	10 kg/h
Power consumption	22 kW	30 kW	30 kW
Dimension (LxWxH) in mm	3.000 x 5.600 x 2.600	3.000 x 5.600 x 2.600	3.000 x 5.600 x 2.600
Weight	3.600 kg	4.100 kg	4.100 kg
Control System	Safety PLC + Web application		

* Based on gas supply pressure of 40 bar

On your side everywhere

Maximator is one of the leading companies providing high pressure equipment up to 25,000 bar. The standard air driven Maximator boosters have been used in hydrogen applications for over 20 years.

Maximator GmbH, with its company headquarter in Nordhausen, has been extremely successful worldwide for more than five decades.

With our products and innovative system solutions, we are the long-standing partner of companies of repute in the automotive and supplier industry, as well as the life science, chemical and mechanical engineering, energy, oil and gas industry sectors.

With our international partner companies, experienced experts in high-pressure technology are always ready to assist you. We have compiled detailed contact information for our international partners which you can find on our website at:

www.maximator.de/worldwide+distribution

MAXIMATOR GmbH

Dipl.-Ing. (FH) Michael Bierwisch

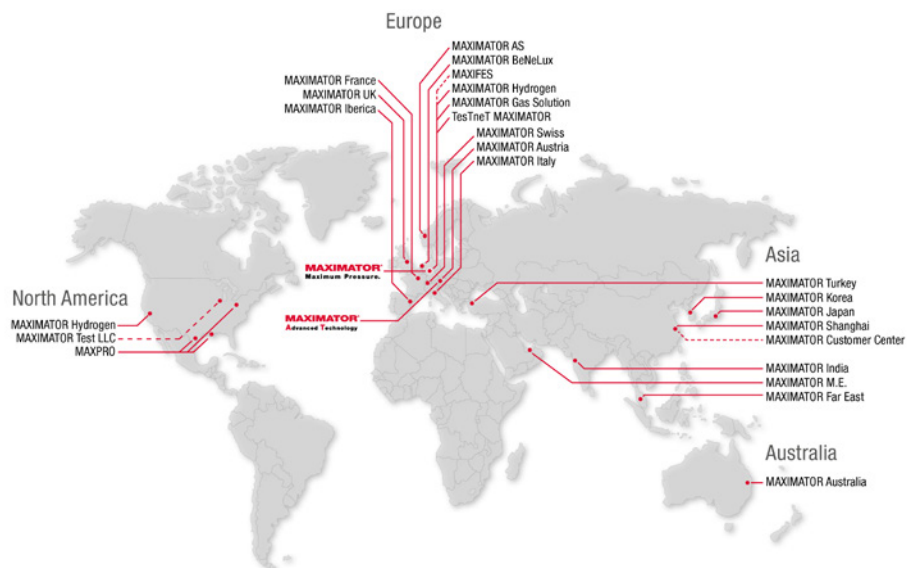
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