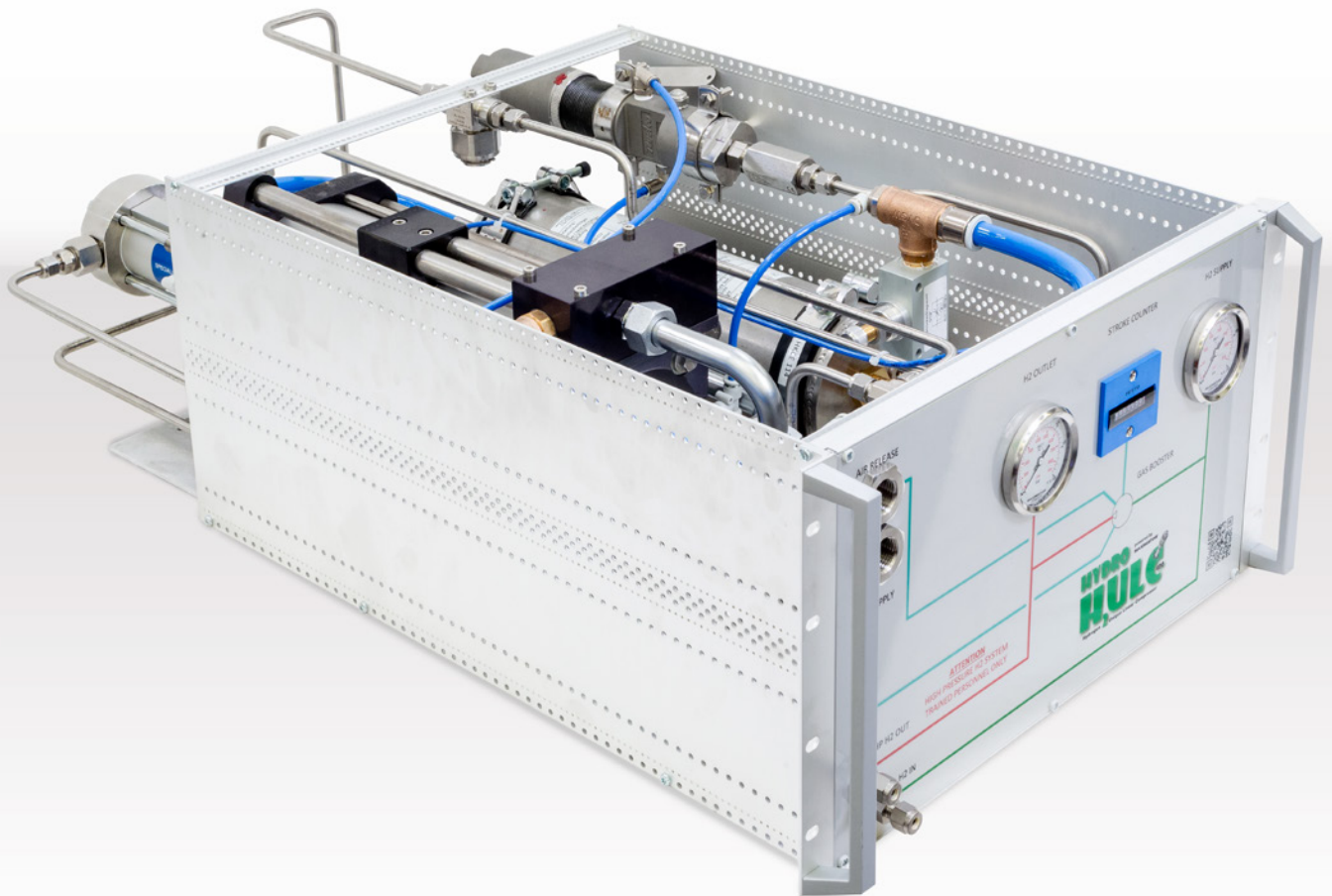


MAXIMATOR®

Maximum Pressure.

High Pressure Technology • Testing Equipment
Hydraulics • Pneumatics

Available with FlexDrive
up to **40%**
Energy saving
compared to standard
air driven systems
Patent protected



» MAXIMATOR H2 Gas Booster - HYDRO H₂ULC Series
140 / 400 / 1000 bar - the most flexible gas filling system

The smart way of hydrogen compression

The Maximator HYDRO H₂ULC Series is a modular Gas Compression System, specifically designed for Hydrogen compression up to 1000 bar with scaleable volume flow.

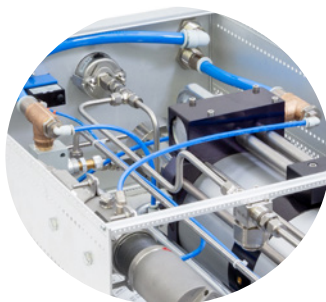
A standard configuration up to 1000 bar consists of one control module (MASTER-module) and up to three gas booster modules (X-modules) - first stage module up to 140 bar, second stage module up to 400 bar and the final stage module up to 1000 bar. This configuration will provide a gas outlet flow of 2,5 kg Hydrogen per hour (average)). For higher outlet capacities more modules can be connected easily.

This complete series is installed in 19" rack frame with front panel mounting and front connection for easy installation, exchange and access. This system can be easily installed and combined.

For all applications the MASTER module is mandatory and is handling safety and functional features for maximum three X-modules. The X-modules can be combined and connected depending on the application.

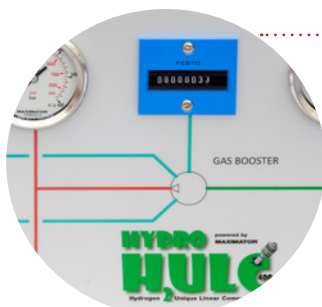
AIRFLOW PURGE

Innovative purging procedure is replacing the well known N₂ flushing and is improving the efficiency of process.



DESIGN

Designed as an easy changeable 19" rack. For maintenance friendly access all connections are installed in the front of the panel. This design reduces the down-time for maintenance, as the complete module can be changed easily in short time.



FLEXDRIVE

Specially for filling processes the patent protected FLEXDRIVE solution is increasing the efficiency of the system and is available optionally.



The Power of HYDRO H₂ULC



High availability



Innovative design



Modular system



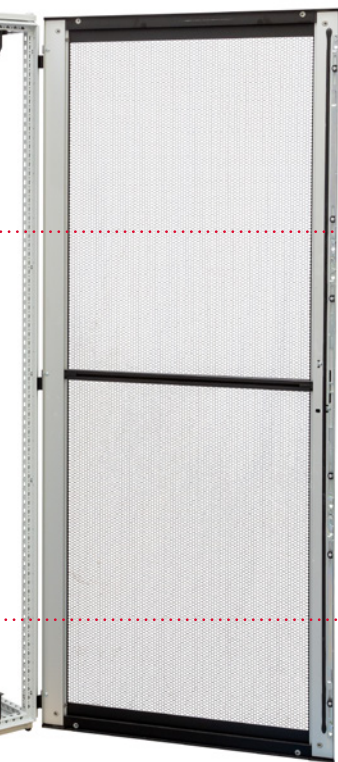
Plug and boost



Scalable compression power



Safety and service friendly

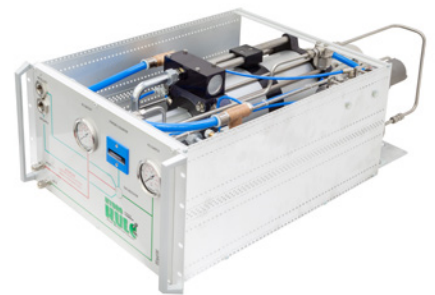


X-MODULE

Is containing the heart of the system - the air driven gas booster and control gauges to check the gas supply and working pressure.

MASTER MODULE

Is required to operate up to three modules and is handling the gas supply with the pressure outlet and pressure bleeding requirements. The air supply line will be separated for each individual module, protected with an internal safety relief valve and will be switched off if the gas supply pressure will drop below the settings.



H2 Gas Booster 19"	Module Master	Module 40	Module 140	Module 400	Module 1000
Pressure class	1000 bar	40 bar	140 bar	400 bar	1000 bar
Mass flow H2	up to 2,5 kg/h average				
Air supply connection	BSP 3/4"				
Air bleed connection	-				BSP 3/4"
Gas supply				3/8"	
Gas outlet	4M			4M**	4M
Dimension (LxWxH)	483x770x270 (6HE)			483x920x270 (6HE)	
Weight	16 kg			50 kg	

* ... Air consumption example @ 6 bar air drive pressure and stroke frequency of 20 strokes per minute

** ... Adapter available to 8 mm SWAGELOK tubing

HYDRO H₂ULC

powered by **MAXIMATOR**

Hydrogen ₂ Unique Linear Compressor

How the HYDRO H₂ULC got its name:

Our HYDRO H₂ULC impresses with its incredible compression power and compact appearance. The unleashed power comes into play whenever necessary and surprises with incredible potential. Thus, it has more than earned this special name.

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

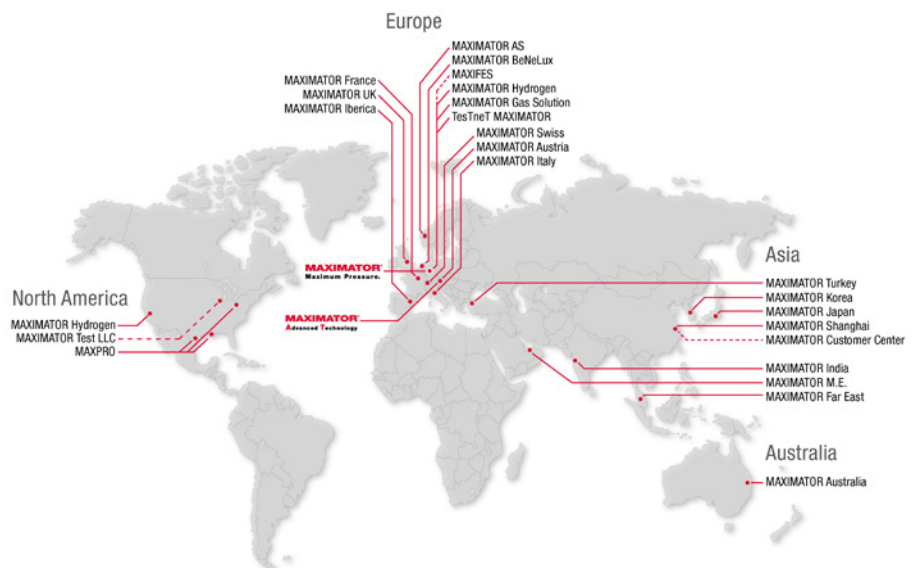
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