

MEGC & GAS STORAGE SYSTEMS



Our engineering team calculate and design the frames for optimum weight /endurance ratio. Frames are durable enough to work under severe conditions for an extended period of time. We calculate and engineer every detail and design for the optimum gas flow. Pipe diameters, valves, elbows, diameter changes, flow direction changes are all software simulated to allow fastest filling and discharge while ensuring that pipes and cylinders are within the pressure and temperature safety limits.



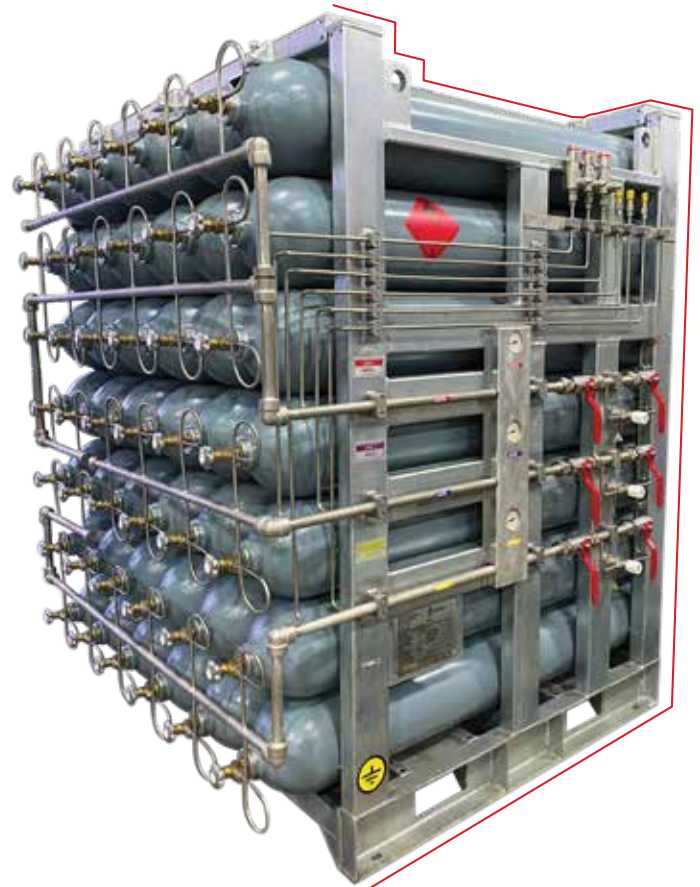


Multi Element Gas Containers (MEGC) are designed and constructed for the maximum possible gas storage within the permissible weight limitations of local authorities.

“ Our MEGCs are usually custom designed as per customer requirements. We specialise in building MEGCs with 150 lt, 200 lt cylinders or 2400 lt jumbo cylinders with a total water volume of up to 24.000 lt at 200 Bar or 250 Bar work pressure options. ”



• 64 x 50 LT



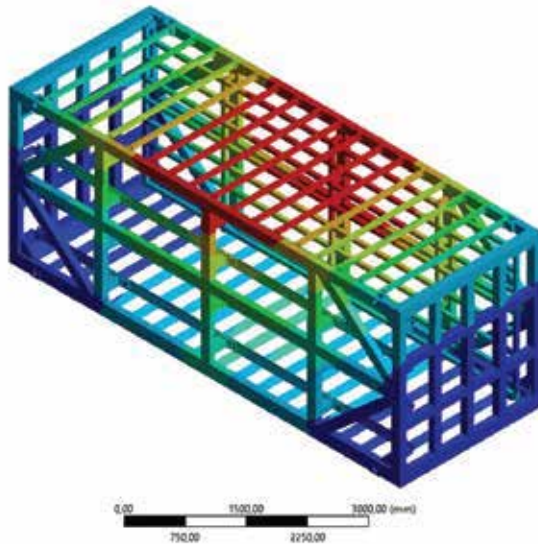
• 42 x 80 LT



Design & Engineering

We employ engineers specialised in welding procedures, gas flows, thermo dynamics and quality control. We calculate, engineer and simulate every detail before production.

Di: 1g_sage
 Total Deformation
 Type: Total Deformation
 Unit: mm
 Time: 1
 13.09.2019 01:49
 15.596 Max
 12
 10
 8
 6
 4
 2
 0 Min

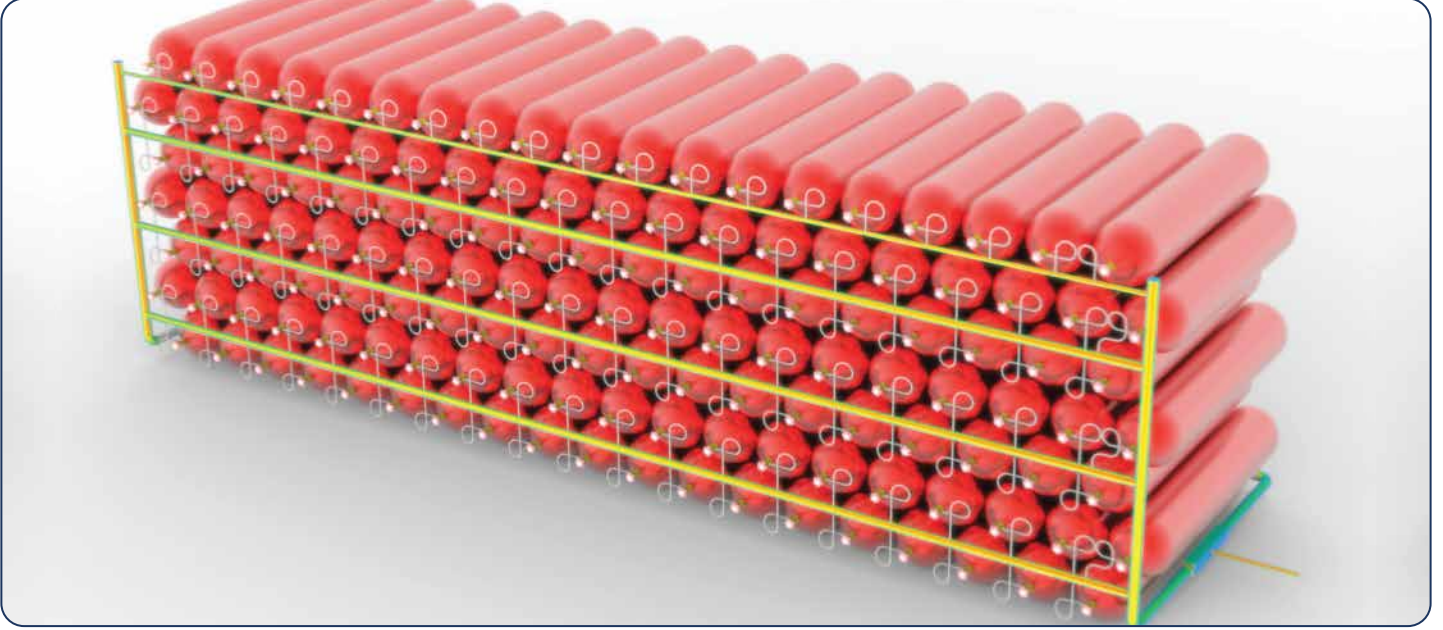


Frame Analysis

Bundle frames are calculated and designed for the optimum weight /endurance ratio. We make sure that our MCPs are not unnecessarily over weighted while they are durable enough to work under severe conditions for an extended period of time.

Gas Flow Analysis

We don't produce our manifolds as we feel like it. We calculate and engineer every detail and design for the optimum gas flow. Pipe diameters, materials, valves, elbows, diameter changes, flow direction changes are all software simulated to allow fastest filling and discharge while ensuring that pipes and cylinders are within the pressure and temperature safety limits.



Production

Our production facilities are located in Istanbul and Kocaeli, Turkey. Production processes are supervised and managed as per ISO 9001 regulation. All details from material acceptance until the product shipment is being recorded on our ERP system providing traceability for all materials and production cycles.



Quality Control

Non Destructive (ND) Testing of Welding Joints

Our entire welding process both for frames and pipes are ND tested. We make sure that all welding joints are free of cracks, porosity, undercut, slugs and with proper welding penetration.



Hydrostatic Testing of Cylinders and Manifolds

All manifolds are hydrostatically tested at 1,5 times the work pressure. As a TPED certified cylinder testing center, we have the ability to test and refurbish gas cylinders. Our sand blasting and electrostatic powder paint facility make your cylinders almost as good as their first day.





Leak Testing

All MCPs and MEGCs are leak tested at work pressure of the product. We fill them up to work pressure and keep them under observation for 24 hrs before shipment.



Documentation and Traceability

All of our products are shipped with our certification and documentation package where all production tests and controls, materials used are well documented. All production details are archived in our systems forever.