

# Manufacturing & Repair Plants for LPG Cylinders & Storage Tanks



## AUSTROPLAN

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# History

AUSTROPLAN is an Austrian engineering company founded in 1958 by the Federal Government of the Republic of Austria (represented through the Ministry of Finance) and the Federal Chamber of Trade and Industry (Österreichische Bundeswirtschaftskammer).



The original strategy focused on services for international and regional development banks and international organizations. AUSTROPLAN has been commissioned many times as engineering consultants and coordinating organization for Technical Assistance Programmes.



Since 1989, UniCredit Bank Austria AG has held 100 % of the company's shares.

Today AUSTROPLAN provides its multi disciplinary services internationally to private and governmental clients. AUSTROPLAN's own know-how is supplemented by proven Austrian and international knowledge. Partnerships with experienced experts and companies create the basis for the efficient and reliable elaboration of projects.



AUSTROPLAN has successfully implemented more than 300 projects worldwide and has been entrusted with consulting contracts by nearly all significant international Organizations and Banks.



AUSTROPLAN is synonymous with consulting in the cement industry

# LPG Cylinders & LPG Storage Tanks

These are welded steel containers for filling with liquefied petroleum gas (LPG), i.e. propane, butane or a mixture of both.

They are a compact energy source for various uses such as heating, cooking, lighting, etc.

Due to the high heating capacity of LPG, these cylinders and tanks are a popular and indispensable help in many households and small business. They are convenient and easy to handle and provide a clean fuel.

## Services Offered:

- Basic & detail engineering
- Product & production know-how
- Supply of machinery & equipment
- Quality assurance by means of inspection & testing
- Supervision of erection & commissioning
- Training of personnel
- Technical assistance
- Financing assistance



# LPG Cylinders



Manufacture of Blanks for Cylinder Body, Base-ring and Shroud: from steel coils or steel plates, with circular shears or blanking press lines.

Deep Drawing of Cylinder Body: one-step or multiple-step drawing, workpiece manipulation by hand - or automatic with transfer units.



Manufacture of Shrouds & Baserings: with blanking presses, rolling machines and welding devices, forming with presses and dies.

Welding: automatic submerged arc welding for pressure seams (single or twin-arc process), MIG/MAG welding for shroud and basering seams.



# LPG Cylinders



Heat Treatment: normalising or stress relief in continuous-type furnaces with various transport systems (overhead conveyor, walking beam, etc.).

Hydrostatic Pressure Testing: on individual or multiple test stands or on semi-automatic or automatic carrousel-type plants.



Surface Treatment: shot blasting, zinc metalizing with electric arc or flame-type spray plants, painting in automatic spray plants with or without electrostatic systems, or in powder coating plants.

## Quality Assurance:

- Raw material test
- Hydraulic volumetric expansion test
- Radiographic examination
- Hydraulic burst test
- Tightness test
- Surface coating adhesion test



# LPG Storage Tanks



Manufacture of Bodies: from steel plates, with guillotine shears and rolling machines.

Manufacture of Domed Ends: with drawing presses or spinning machines.



Assembly: domed ends and body are assembled on hydraulic devices.



Welding: Automatic sub-merged arc welding for body circumferential seam.



# LPG Storage Tanks



Hydrostatic Pressure Testing: on special, individual test benches

Surface Treatment: shot blasting, zinc metalizing with electric arc or flame-type spray plants, spray painting or powder coating.



Quality Assurance:

- Raw material test
- Hydraulic volumetric expansion test
- Radiographic examination
- Tightness test
- Gassing against inside corrosion
- Surface coating adhesion test





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