CONTAINER FILLING PLANTS

Kosan Crisplant’s mobile container filling plants are designed for safe and efficient filling, checking and maintenance of all kinds of LPG cylinders.

- Small flexible mobile and prefabricated plants - plug & play
- Ideal solution when entering and testing new markets
- Ideal filling solution when rebuilding/renovating existing plants
- Flexible solution and arrangement according to customer needs
- 20’ and 40’ containers, according to actual need for equipment
- Comprise Kosan Crisplant’s thoroughly tested standard filling equipment
- Filling capacity up to 400 cylinders per hour per container
- Complete filling plant (can also contain storage room, gatehouse and LPG tanks)

Your Benefits

- Easy installation on site
- Simple layout and maximum safety
- Minimum civil work and engineering
- The plant can be made independent of external power supply (e.g. in rural areas)
- Low power consumption
- Easy and safe to operate
- Ready for integration in filling system network
- Ready for communication with PC for data collection
Conveyor Systems

The conveyor systems are designed for efficient and rational transport of LPG cylinders from the unloading point to the loading point, passing various processing points.

- High quality and solid systems developed on the basis of 50 years’ experience
- Rational transport of LPG cylinders
- Modular and flexible systems
- Layout according to requirements
- Systems for all cylinder types
- Manual or fully automatic control of cylinder flow
- Integration with machines and processes
- Fully galvanized

Your Benefits

- Minimized strain on operators
- Capacity increase thanks to optimisation of manual processes
- Minimum need for manpower
- Lasting quality
- High safety thanks to controlled cylinder logistics
- Reduction of typical handling damages on cylinders
- Minimum wear, low power consumption and noise level when using soap water lubricated chain conveyor
Cylinder Handling Solutions
Kosan Crisplant’s cylinder handling solutions are designed for optimisation of:
- manual handling processes when unloading and loading cylinders from trucks
- other lifting and removal processes in the filling hall
  - Heavy lifts and removals are performed by handling equipment
  - Flexible systems, available as overhead systems and telescopic conveyor systems

- Minimum need for manpower
- Ergonomic solutions
- Small investment
- Handling of both industrial and domestic cylinders

Your Benefits
- Minimized strain on operators
- Transport of cylinders directly from the conveyor or the filling machine to the truck platform
- Increased capacity when loading and unloading trucks
- Efficient handling at peak periods
- Reduction of typical handling damages on cylinders
Palletizing Systems

Kosan Crisplant’s palletizing systems are designed for safe and efficient handling of all kinds of pallets as well as for automatic loading and unloading of LPG cylinders.

- High safety and optimal logistics at the filling plant
- Minimum time consumption for loading and unloading of trucks
- Fully automatic plant
- Minimum need of manpower
- High capacity – up to 2,400 cylinders per hour
- Careful transportation of cylinders between filling plant, storage and customer
- Flexible design for handling of many pallet types

Your Benefits

- High safety as only internal vehicles operate near by the filling plant, and only few external people has access to the plant
- Optimal logistics as, to a large extent, external and internal vehicles operate in separate areas
- Possibility of expansion thanks to flexible and modular design
- Just few cylinder repairs necessary as cylinders are protected in pallets during transport
- Just few industrial injuries as there are no manual cylinder lifts

High-quality systems for safe and efficient storage and transport of LPG ISO tank containers, semi-trailers, bobtails, and storage tanks
40' ISO tank container

Our ISO tank containers are intended for transportation by car, river, sea or railway and are quality certified according to the international standards ISO, IMDG, RID and ADR. A tank container gives you the following benefits and possibilities,

• Carry out international transport with customs seals to any place in the world, crossing any number of state frontiers
• Exclude cargo transfer operations when transporting intermodally from manufacturer to user
• Ensure safe transport due to the use of a worldwide system of certification, inspection, and repair of containers
• Connect a tank container directly to a production line – e.g. a mobile cylinder filling plant
• Save space – pile up to 9 containers on top of each other
• Easy and quick solution when a temporary storage depot above ground is needed
• Flexible design – a transferring and metering system can be incorporated in the tank container

40' ISO tank container mounted on truck

ADR certified LPG semi-trailers up to 56,000 litres

All our semi-trailers – designed for carrying propane/butane in bulk – are manufactured and thoroughly tested according to the ADR standard and the T-PED directive (European Transportation Pressure Directive – 99/36/CE).

Best quality and safety – High tensile strength steel (min. 640 N/mm²) • Ultrasonic test of all plates before welding
• First class weldings including 100% X-ray or UT of all welds • Mechanical tests • Post welding heat treatment
• Test pressure 350 PSIG • Great stability due to gravity center lowered by cylindroconical design
• Thorough surface treatment (sand blasting and two-pack epoxy chemical resistant paint)
• Fireproof steel connections and fittings
• Aluminium sun shade on top of tank • Flameproof electric wires, fittings, and lighting.

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**LPG bobtails up to 26,000 litres**

We offer a wide range of quality solutions for installing an LPG tank – including a transferring and metering system – on basically any chassis available on the market. The chassis may be provided by the customer or we can deliver a total solution. Each and every tank is designed, built, and thoroughly tested according to the ADR standard and the T-PED directive.

The transferring and metering system is installed in an aluminium cabinet in the rear of the bobtail, and consists of a hydraulically driven LPG pump, a mechanical (or electronic) meter including a printer in the truck cabin, a hose reel with LPG hose and filling gun, and internal valves (for liquid/vapour phase) with pneumatic actuators.

Standard tank accessories include a manometer, two fixed level indicators (for propane/butane), an emergency drain, and a level indicator (REGO, rotogage).

All tanks have undergone a surface treatment consisting of external shot blasting, application of a primer coating, and painting with polyurethanic paint.

**Cylindrical LPG storage tanks**

The storage of LPG imposes stringent technical requirements. The materials must be carefully selected, continual quality checks must be performed during manufacturing and comprehensive tests must be performed on completed tanks.

Our range of storage tanks – in many different sizes – are designed and manufactured according to the ASME Boiler and Pressure Vessel Code (North America) and in compliance with other national technical/safety codes and norms (e.g. the European calculation code EN13445 – 97/23/CE).

The finishing of all our tanks comprises internal cleaning and brushing, and external sand blasting (Sa2½) and roll painting (min. 100 micron).

*Examples of LPG bobtails – ideal for LPG distribution in cities/trafficked areas*

*LPG semi-trailer with transferring and metering system in rear cabinet*

ISO tank containers, semi-trailers, bobtails, and storage tanks
Kosan Crisplant’s mobile compact filling systems are designed for safe and efficient filling and checking of all kinds of LPG cylinders.

- Small flexible mobile and prefabricated platforms – plug and play
- Ideal solution for quick installation
- Suitable when rebuilding and renovating existing filling plants
- Flexible system - arrangement according to customer needs
- Platform size according to actual need for equipment
- Comprise Kosan Crisplant’s thoroughly tested standard filling equipment

Your Benefits

- Easy installation on site
- Simple layout and maximum safety
- Minimum civil work and engineering
- The plant can be made independent of external power supply (e.g. in rural areas)
- Low power consumption
- Easy and safe to operate
- Ready for integration in filling system network
- Ready for communication with PC for data collection
- Comprise all necessary equipment for safe and reliable filling of gas cylinders
- Capacity increase is possible
- Minimum space requirements
Carrousel Filling Systems

Kosan Crisplant's carrousel filling system is designed for safe and effective filling of all kinds of LPG cylinders.

- The most effective way of filling LPG cylinders
- High capacity filling, up to 1,800 cylinders per hour
- Fully automatic cylinder flow
- High safety level thanks to intrinsically safe network
- Decentralized control units independent of PC's
- Rapid encoding or automatic reading of cylinder tare
- Control system uptime: 99% – the best on the market
- Total overview of the filling production thanks to PC data collection

Your Benefits

- Low installation costs and high safety thanks to intrinsically safe network
- Focus on ergonomics at central tare encoding station
- Few operators and minimized risk of human errors
- No mechanical wear on electrical control equipment, non-touch sensors and swivel connectors
- Optimal logistics and high output (e.g. sorting of cylinders for maintenance before filling)
- Optimal PC data collection tool for effective filling and maintenance
- Capacity increase is possible
- Same user interface (HMI/CUC controller) on all machines
LPG Bottling Plant

Leading usher and Manufacturer of LPG Bottling Plant such as LPG Bottling Plants, LPG Filling Plant and Gas Plant from Pune.

LPG Bottling Plants

We undertake turnkey contract for bulk installation of LPG bottling plants for filling lpg cylinders. These are sophisticated plants with or without carousel. We also provide special instrumentation for complete automation to enable faster and accurate cylinder filling.

Bottling plants is a plant where beverages are put into bottles with a cap. These bottles are widely used for storage purposes.

Liquefied petroleum gas (LPG) consists mainly of propane, propylene, butane, and butylene in various mixtures. However, in the United States, the mixture is mainly propane. It is produced as a by-product of natural gas processing and petroleum refining. The components of LPG are gases at normal temperatures and pressures.

LPG bottling plant is a plant where LPG is put into bottles for storage. The plant has the facility to receive bulk LPG by pipeline from a reliable source or any area. This is the safest and the cheapest way of transporting bulk LPG.

The plant is equipped with hydraulic cylinder testing equipment for periodic testing of the cylinders. To ensure safe and accurate filling of the cylinders well experienced technical people should only be employed in the working of the plant.

Tips While Working With LPG Bottling Plant
• The filling machines should be provided with pneumatic cut off system to automatically cut off the LPG supply when the cylinder is filled.
• The filling pressure should not exceed design pressure of the liquid.
• Cylinders have a standard weight and all cylinders should be checked for their weight after they are filled.
• The compact valve tester should be calibrated to detect leakage from the cylinder.
• Defective cylinders should be evacuated and evacuation should be done either through one or two vessels. From these vessels LPG is transferred to the storage vessels through a pump.
• Security caps should be provided while performing any test with LPG.
• The sequence of operation should be strictly followed.
• To avoid undue accumulation the cylinders should be immediately shifted to storage after filling.

The bottling plant has its own system of stringent safety and quality control checks built-in at different stages

The quality control checks at the bottling plants are carried out at 3 stages:
• spurious cylinders, cylinders with missing O-Rings and cylinders due for pressure testing.
• Post-filling Quality Control Checks - In the post-filling checks, it is ensured that all the cylinders filled on the automatic cut-off weighing scale/filling machines are subjected to 100% cross- checks for weight.

Statistical Quality Control Checks - These checks include all pre-filling and post-filling Checks in addition to checking the quality of the seal.

Other Information
• **Pay Mode Terms:** L/C (Letter of Credit), T/T (Bank Transfer)
• **Port of Dispatch:** Mumbai
• **Delivery Time:** within 30 days

**Packaging Details:** 1. export worthy packing
LPG Filling Plant

We manufacture and provide total turnkey solution for bulk LPG storage facility with vaporizer, pressure reducing station and other accessories for use of LPG as fuel in various Industries like Steel, Cement, Ceramics, Automotive, Glass and various other applications.

Technical Specification

Design Pressure: 18 bar (MixA1 - ADR)
Design Temperature: -20 / + 50
Design Code: EN - 12493 / ADR, PD 5500, ASME SECT VIII DIV 1 & 2

Volume (m³): 100 | 200 | 350 | 500

Other Information

- **Pay Mode Terms:** L/C (Letter of Credit), T/T (Bank Transfer)
- **Minimum Order Quantity:** 1 Cubic Meter
- **Port of Dispatch:** Mumbai
- **Delivery Time:** As per client requirement
- **Packaging Details:** 1. sea shipment packing
Gas Plant

Item Code: 124

We are manufacturer and supplier of Gas Plant, LPG Plant, LPG Gas Plants, LPG Filling plant, LPG Bottling plants, LPG Plant installation, turnkey plant with a Largest exporters.

Other Information

- **Pay Mode Terms:** L/C (Letter of Credit), T/T (Bank Transfer)

- **F. O. B. Price Order:** 7500 USD
- **Minimum Order Quantity:** 10 Cubic Meter
- **Port of Dispatch:** Mumbai
- **Production Capacity:** 25
- **Delivery Time:** 4 to 6 weeks after advance payment
- **Packaging Details:** Sea Shipment packaging
  
  Export packaging
Filling Carousel

This is a circular filling platform. It is currently the most efficient piece of equipment (capacity/operator) used in the LPG cylinder filling process when production rates are high.

The carousel can be equipped with mechanical or electronic filling stands and can be adapted to all cylinders profiles.

It essentially consists in the following:

- A rotating circular structure supported by a central tripod and peripheral bearing rollers.
- A variable speed gearing motor unit to drive the rotating structure.
- A mechanical swivel joint (hub), as well as an electrical swivel joint for distributing power and fluids to the filling posts.
- A general grounding network (equipotential bonding).
- Isolation LPG supply valves for each filling post.