

# CARROUSEL FILLING SYSTEMS

**Kosan Crisplant's carousel 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

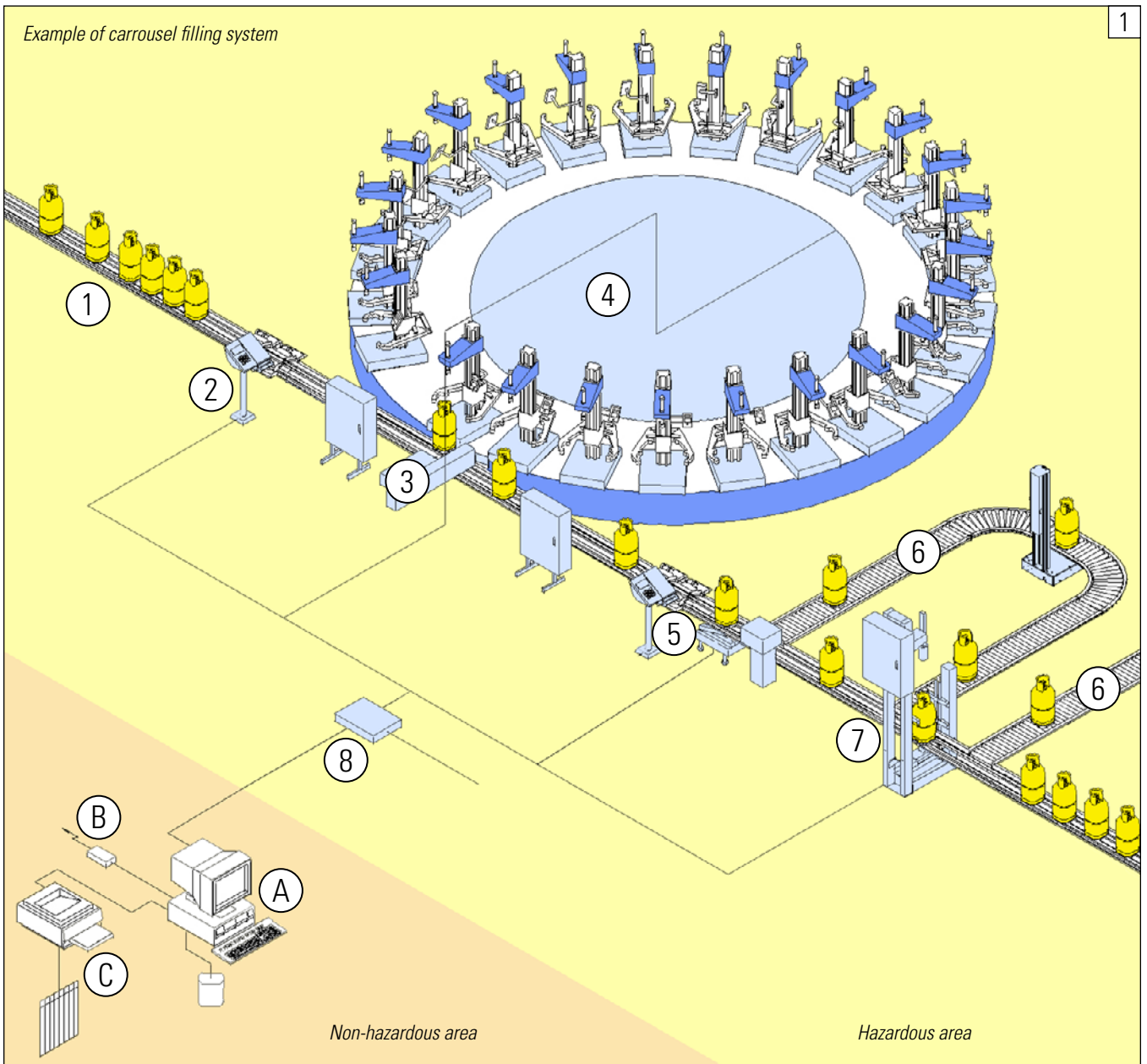
- High safety level thanks to intrinsically safe network
- Decentralized control units independent of PC's
- Rapid encoding or automatic reading of cylinder tare
- Control system uptime: 99% – the best on the market
- Total overview of the filling production thanks to PC data collection

**Equipment in hazardous area:**

- 1 Chain conveyor
- 2 Encoding station
- 3 Introduction and ejection units
- 4 Filling carousel and filling machines
- 5 Check scale
- 6 Sort-out conveyor
- 7 Leak detector
- 8 Power and data interface

**Equipment in non-hazardous area:**

- A PC incl. software and database for filling data
- B Modem for connection to KC on-line service
- C Printer for printing reports






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Carousel filling system with UFM universal filling machines

- From 8 to 42 filling machines on the carousel platform – capacity can be adapted to actual and future needs
- Filling machines and filling heads adapted to cylinders and cylinder valves
- PC placed in non-hazardous area can be connected to the system
- Quick and professional service backup by remote control available

### Your safety

- Ex marking according to the ATEX Directive and applicable EN standards:  
 II 2G Ex h IIB T3 Gb



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Introduction and ejection units

### 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

- All equipment and machines in the filling system are intended for operation in hazardous areas classified as Zone 1 or Zone 2 according to EN/IEC 60079-10-1
- All equipment and machines in the filling system are designed and validated in accordance with a certified ISO:9001 quality management system; furthermore, they are designed according to all relevant requirements set out in applicable EU Directives
- Filling machines and check scales have weighing Accuracy Classification C3 according to OIML R 76/EN45501



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Electronic check scale

### Your possibilities

- Semi-automatic or fully automatic system according to valve type
- Automation level can be upgraded according to actual and future needs



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ATEX approval certificate