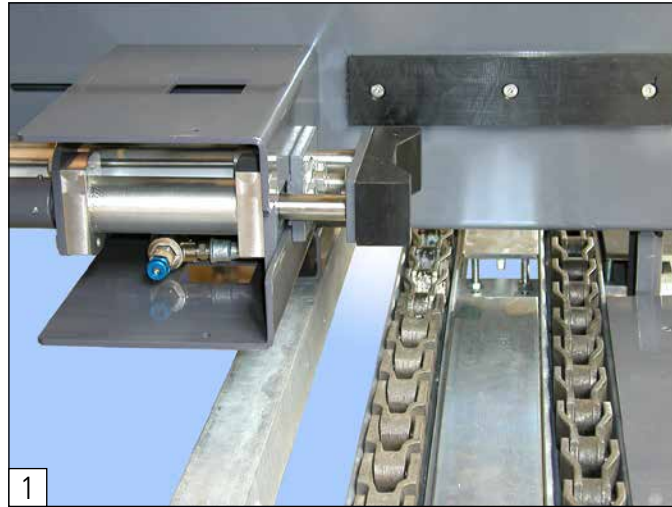


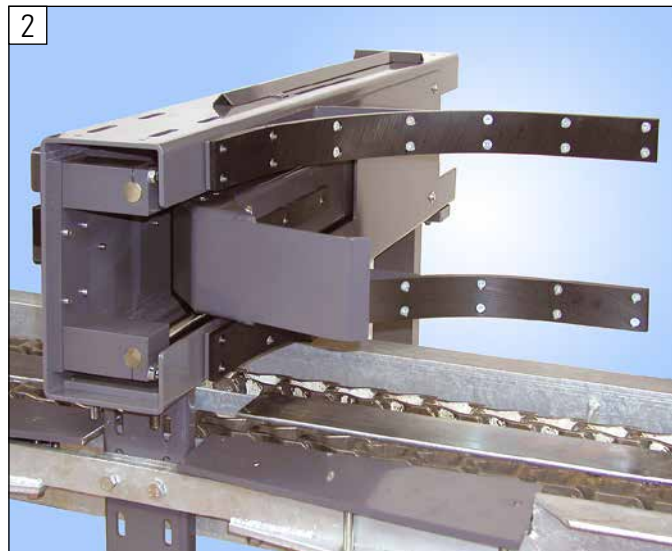
# CARROUSEL INTRODUCTION AND EJECTION SYSTEMS

*Kosan Crisplant's carousel introduction and ejection systems are designed for safe and fast introduction and ejection of LPG cylinders to and from carrouseles.*

- Maximum use of carousel capacity
- Safe operation of carrouseles
- Fully automatic cylinder flow to and from carrouseles
- Systems for all cylinder types
- High capacity
- Can be integrated in carousel filling system
- Can be integrated in chain conveyor system
- Easy installation in existing plants

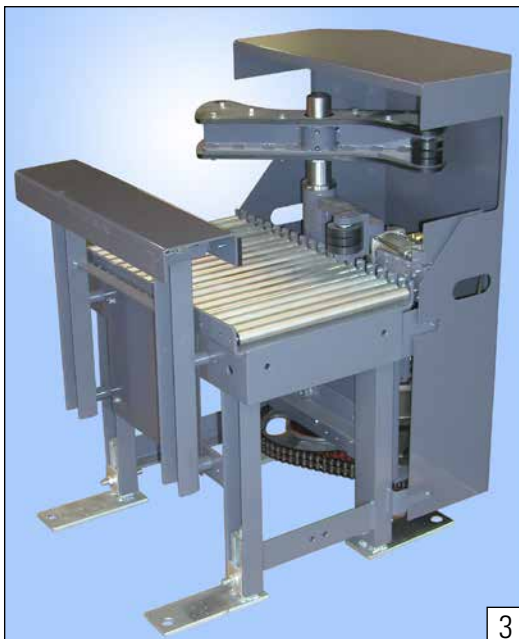


*TIE introduction unit for tangential introduction of cylinders to filling carousel*



*TIE ejection unit for tangential ejection of cylinders from filling carousel*

*HRS introduction unit for radial introduction of cylinders to filling carousel*



*PER ejection unit for radial ejection of cylinders from filling carousel*

### Your benefits

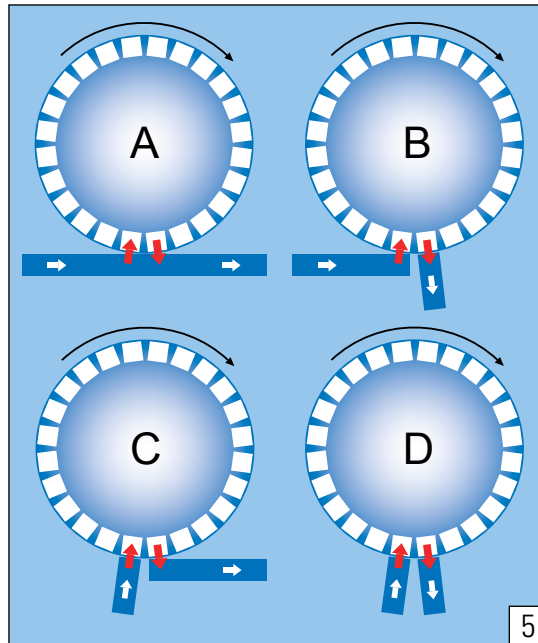
- No manual handling before or after carousel
- No introduction if filling machine on carousel is occupied
- No ejection if cylinders are accumulated on chain conveyor after carousel
- In case of CUC controlled system:
  - Non touch control
  - Automatic data transfer to filling machine and check scale

### Your possibilities

- Tangential design,
  - with introduction and ejection
  - with introduction and arrangement for activation of pusher on each filling machine
- Tangential design can be combined with valve orientation
- Radial design,
  - with introduction and ejection
  - with introduction and arrangement for activation of pusher on each filling machine
- Pneumatic system or electronic CUC controlled system
- Adjustment of system speed to carousel speed



Radial introduction unit combined with tangential ejection unit with a cylinder pusher on each filling machine



Introduction and ejection systems

- A Tangential introduction and ejection
- B Tangential introduction and radial ejection
- C Radial introduction and tangential ejection
- D Radial introduction and radial ejection

The illustrated introduction and ejection systems are designed for filling carousels with clockwise rotating direction. All systems are available for filling carousels with anticlockwise rotating direction.



Carousel filling systems with radial introduction and ejection units



Top: TIE tangential introduction unit  
Bottom: TIE tangential ejection unit

### Your safety

- Ex marking according to the ATEX Directive and applicable EN standards:  
**CE** **Ex** II 2G Ex h IIB T3 Gb
- All carousel introduction and ejection systems are intended for operation in hazardous areas classified as Zone 1 or Zone 2 according to EN/IEC 60079-10-1
- All carousel introduction and ejection systems 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