

Semi-continuous batch system KCS

The semi-continuous system with downstream intensive cooling



Advantages

„Inline“ production

The production process is performed inline with the semi-continuous loading system, i. e. there is no processing delay between filling and packaging.

100% separation between low and high risk areas

The airtight transfer zone between the entry and exit sides allows the separation of production and packaging areas (“low-risk“, “high-risk“).

Integration

The system can be integrated into the production area due to upstream and downstream automation.

Good to know

Use

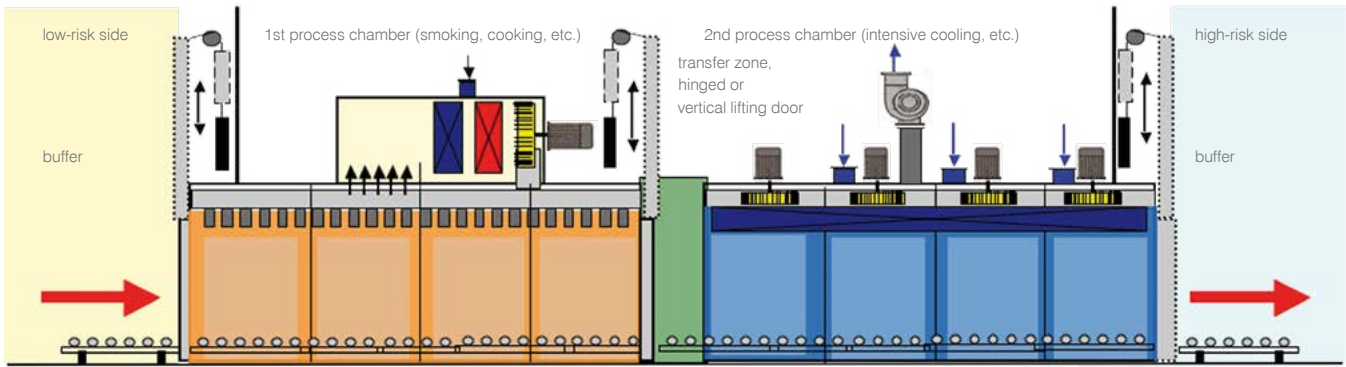
Each of the process chambers are separated by an intermediate transfer zone (hinged or vertical lifting doors). A system may consist of two or more zones.

Possible processes

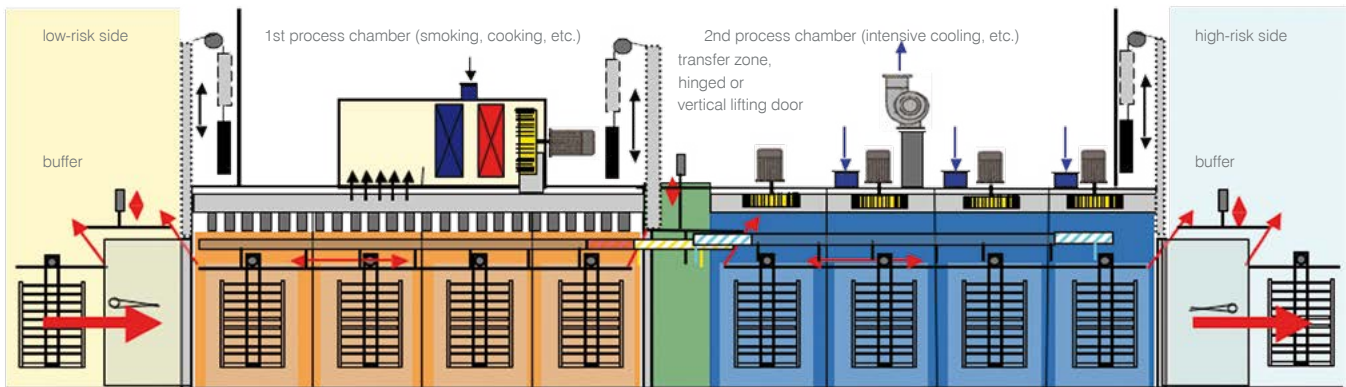
- drying / smoking / cooking transferred to intensive cooling downstream
- cooking transferred to intensive cooling downstream
- other combinations on request

Floor transport/ roller or overhead rail conveyor

An electric drive system ensures smooth transportation



Example with floor conveyor installations (racks or smoking carts)



Example with suspended racks

| | Number of trolleys | Cabinet dimensions (incl. extension) (cm) | | Minimum ceiling height for hinged doors (cm) | | Minimum ceiling height for vertical lifting doors (cm) | |
|----------|--------------------|---|--|--|--------------------|--|--------------------|
| | | length with hinged doors in transfer zone | length with vertical lift doors in transfer zone | without overhead rail | with overhead rail | without overhead rail | with overhead rail |
| Tandem | 4 + 4 | 1052 | 967 | 400 | project-related | 500 | project-related |
| | 5 + 5 | 1274 | 1189 | 450 | | 500 | |
| | 6 + 6 | 1496 | 1411 | 450 | | 500 | |
| | 7 + 7 | 1718 | 1633 | 480 | | 500 | |
| | 8 + 8 | 1940 | 1855 | 480 | | 500 | |
| Parallel | 6 + 6 | 830 | 745 | 450 | 500 | | |
| | 8 + 8 | 1052 | 967 | 480 | 500 | | |
| | 10 + 10 | 1274 | 1189 | 500 | 500 | | |
| | 12 + 12 | 1496 | 1411 | 500 | 500 | | |

| Features | Description | Standard | Options | Entry | Transfer | Exit | Remarks | |
|------------------------------------|---------------------------------------|----------|---------|--------------------------------|----------|------|-------------------------------------|---|
| Transfer zone (optional) | hinged doors (S) | → | | see below for possible designs | | | | |
| | vertical lifting doors (L) | | | | | | | |
| Floor transport | buffer on low-risk side | | x | L | S/L | L | | |
| | entry from 1st position | x | | S/L | | S/L | | |
| | over transport to the following zone | x | | | | | S/L | |
| | transport to the last position | x | | | | | | Transport system always required |
| Roller conveyor | buffer on high-risk side | | x | L | | L | | |
| | buffer on low-risk side (1 place) | x | | L | L | L | Manual transportation to the buffer | |
| | buffer on low-risk side (n places) | | x | | | | | |
| | entry from 1st position | x | | | | | | |
| | over transport to the following zone | x | | | | | | |
| | transportation to the buffer position | x | | | | | | |
| buffer on high-risk side (1 place) | x | | | | | | | Manual onward transport from the buffer |
| Overhead rail system | buffer on high-risk side (n places) | | x | | | | | |
| | buffer on low-risk side | | x | L | L | L | | |
| | entry from 1st position | x | | S/L | | S/L | | |
| | transport to the last position | x | | | | | S/L | Transport system always required |
| | transportation from last zone | | x | | | | | |
| buffer on high-risk side | | x | L | L | | | | |