

International Food Standard

Food safety in the production environment

tracing
 monitoring of
 production plants
 handling of critical
 products

International Food Standard IFS

The International Food Standard represents a consistent evaluation system for manufacturers and dealers active in the food sector. It ensures fulfilment of customer requirements and eliminates liability in the scope of globalisation of product supplies.

Version 5 of the IFS Standard published in January 2008 focuses on food safety, HACCP, hygiene, and operating environment within manufacturing processes. Requirements to be observed by the companies in later audits are specified, in order to achieve a specific certification level.

Ten K.O. evaluation criteria have been specified in the Version 5.

THE INNOVATION



IFS K.O. - Criteria

- Responsibility of management
- Monitoring the CCP's HACCP analysis
- Personal hygiene
- Raw material specifications
- Product specifications (Recipe management)
- Foreign bodies contamination prevention
- Traceability
- Internal Audits.
- Measures for recall must be in place.
- Corrective measure

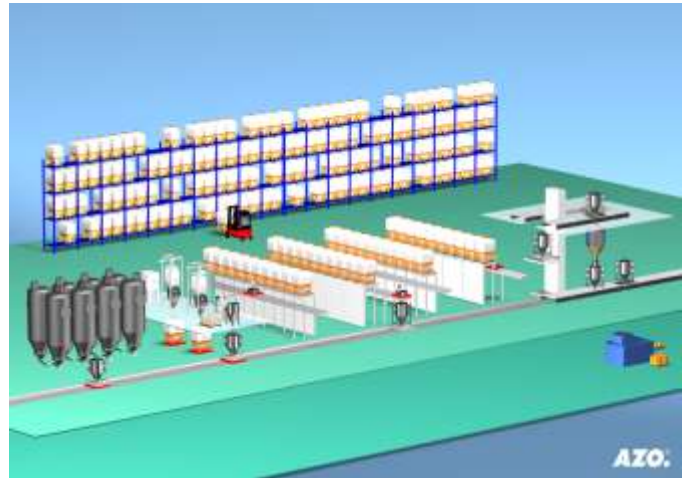
Our products provide support in essential issues when fulfilling these criteria. Our systems operate as integrated comprehensive solutions. SPC control systems, visualisation systems, batch systems or complete MES – systems are used according to the requirement profile.

Tracing, limit value monitoring, examinations, corrective measures, and documentation of all activities are permanent components of all our solutions.

Tracing

Our solutions utilise the following functional components for comprehensive tracing of goods throughout the entire production cycle:

- Integrated electronic tracing systems for unit packs, e.g. containers, storage of the complete data in a data base and/or on an RFID chip
- Labelling of all produced unit packs with bar code print for later identification and examination, EAN - marking is also possible
- Documentation of the entire production process, status information for all batches, electronic batch reports, audit trail
- Forward and back tracing, from the final product to the supplier batch or from the supplier batch to the final product
- Archiving of the data for the entire accountable period Kastor production system and ManDos manual weighing system, each equipped with an integrated batch tracing system



integrated container handling

Monitoring of production plants

Modern production plants frequently use changing products. From the HACCP point of view, this is already recognised as a critical point (Critical Control Point - CCP) by analysis of the customers. A support system is required to monitor the process, in order to avoid contamination. The repeated use of containers without cleaning is also possible for example without changing products; cleaning is required however in specific intervals. Electronic systems can support this effectively, in order to fulfil the quality requirements. A further advantage is the documentation of system processes. The following functional modules for monitoring production plants are feasible:

- Integrated unit pack, container and equipment administration
- Monitoring of cleaning cycles (controlled via time interval, number of uses and by events, such as product changes)
- MHD monitoring
- Logistics status and quality status monitoring
- Integration and documentation of the quality assurance measures, such as e.g. in-process examinations (IPK), suspension of batches or unit packs for QA examination, release after the QA examination
- Integrated cleaning documentation
- Monitoring of cleaning parameters, such as e.g. drying times
- Complete use history (audit trail)

Handling of critical products

Product groups are introduced, in order to avoid contamination within specific plant areas. The product groups are used for example to separate allergen and non-allergen raw materials. The handling risks of these product groups are diminished, by e.g.:

- bar code examinations at all locations where materials are supplied to the plant - these plant sectors are blocked, if incorrect materials are identified