



Successful integration of ManDos! The success story of the integration of ManDos in an existing production structure

identify
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track
log

The customer

Flexibility, reliability, productivity and ease of operation are decisive criteria when you plan and design production facilities. Manual weighing stations constitute an important part of production facilities. They serve the execution of computer-assisted manual weighings, if the raw material quantity to be weighed is too small to use automatic weighing or always has to be redefined due to fluctuating active substance contents.

For this reason, Tetra GmbH, the most significant manufacturer in the field of aquaristics and garden pond products, decided in the middle of 2004 to use ManDos from messers hsh-systeme für prozess-IT gmbh.

Six of these manual weighing stations have been in operation at Tetra GmbH since December 2004.

The task

The demands made on ManDos by Tetra GmbH included the standard functionalities offered by ManDos as well as a whole lot of production-specific requirements.

Due to the flexible possibilities of ManDos regarding use and configuration, these requirements could be fulfilled in a user friendly way also increasing production figures.

THE SOLUTION



„The program is very user friendly, especially the Frontend mask gives a good overview of the current weighing.“

„The flexibility of the program supports the different kinds of requirements already existing in our house although everyone works with the same program.“

The solution

Two Scales and one barcode scanner are available for weighing at each of these manual weighing stations.

The system meets the following demands of Tetra GmbH:

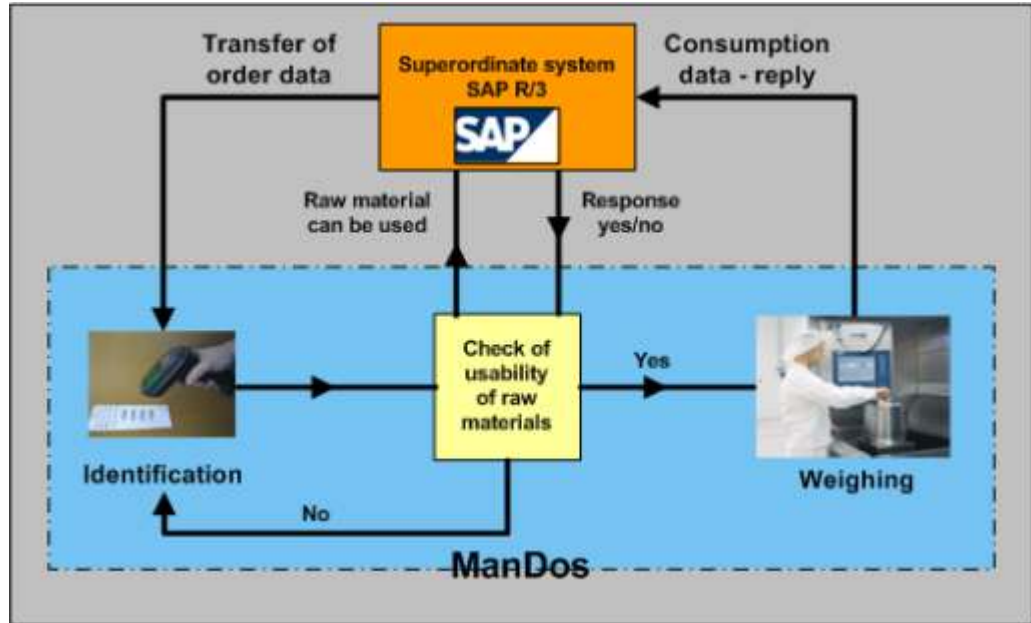
- Separate master data management for emergency operation
- Processing of **one** order at **various** stations
- „Simultaneous“ processing of **different** orders at **one** station
- Order management and update by means of communication with a superordinate system (SAP)
- Computerassisted identification of raw materials by barcode identification with simultaneous usability check by communication with a superordinate system (SAP)
- Tracking of raw materials
- Monitoring of weighing processes with documentation of results
- Logging / reporting
- Permanent readiness to communicate with superordinate system (SAP) during the weighing process
- Manual addition of whole bags
- Batch-oriented weighing
- Series-oriented weighing

Identification - Marking - Tracking - Logging

By the identification of the materials to be weighed by means of the barcode scanners, the following is guaranteed:

- Only correct and released raw materials will be used
- Recording of the correct lot

After completion of each batch weighing, ManDos writes a batch log to record the weighing procedure. All production relevant data are indicated in this batch log and are thus part of the complete tracking of the production process according to EU 178/2002 and EU 1935/2004.



Weighing sequence of a ManDos station at Tetra GmbH



Operation mask of manual weighing

Host coupling with SAP

Due to the communication between ManDos and the SAP-system of Tetra GmbH by means of the HostLink module, the manual work of an operator regarding master data management and order data management has been minimised. The necessary data are transferred by the SAP-system direct into the relevant databases of ManDos or are reported back to the SAP-system by ManDos.

Data exchange between ManDos and the SAP-system was realised by the standard transmission protocols ASCII-File, RFC-Client and Idocs.

We transmit:

- Order data (SAP to Host)
- Check of usability of raw materials (Host to SAP to Host)
- Acknowledgement of consumption data (Host to SAP)