

di:ALog *material flow*

Material flow control of the latest generation



: Faster - more efficient - more flexible

Optimization by simulation

Drastic reduction of down times at
implementation

Adaptation and further development without
affecting the current production

: Basics and Principles



Material flow control

di:ALog material flow - the material flow control of the Dresden Informatik GmbH guarantees a time and cost efficient control of the material flow between the automated facility components in warehouse and production.

By means of **di:ALog material flow** operators and builders of logistic facilities are able to achieve an optimal output for their facilities with respect to all load conditions.

All facility parameters are given on one sight. An appropriate visualization shows the current material flow as well as the facility status. The operator and the maintenance personnel can directly intervene into the processes.

Independent from Software and Hardware producers

- Integration of hardware (SPS, Barcode- /RFID-Technique) independently from the producer
- Disclosure of interfaces, e.g. REST, OPC, SOAP
- Connection to existing Host-systems
- Direct connection to external software for logistics simulation as e.g. FlexSim, Central production control, ERP-systems as SAP and Dynamics NAV, warehouse management as **di:ALog warehouse**

Process optimization

- Visualization of all material movements
- Automatic shortest path selection based on configurable parameters
- Access to order data, message data as well as event-driven data of single components in operating business
- Simply to perform changes in the material flow by the user
- Targeted analysis and elimination of bottle necks, accumulations and other troubles by recording any period
- Active diagnosis and maintenance support
- Intuitively operable

Cost reduction

- Reduction of lead times
- Minimization of stock movements
- Drastic reduction of the implementation times by real time simulation
- Exploitation of potential for optimization at e.g. machine scheduling

: Special features

Optimization by simulation

By means of software for logistics simulation, planned or already existing devices and material movements can be replicated. The resulting data and operating status are being transferred to **di:ALog material flow** by simulated input and output signals, just as at real facilities.

This is how the operational behavior of **di:ALog material flow** can be analyzed and optimized in an early planning phase or parallel to the running business.

Reduction of down times at implementation for more than 60%

The implementation of material flow controls may often imply long production down times. Moreover planned implementation periods cannot always be met.

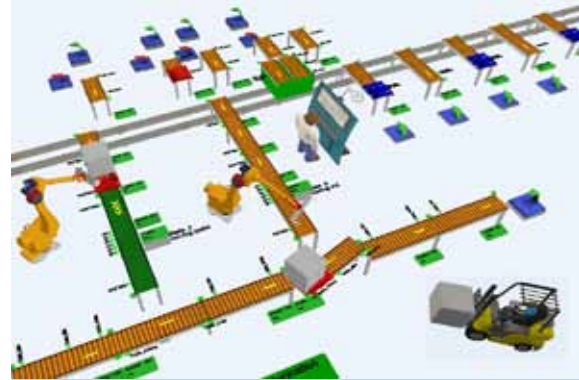
di:ALog material flow reduces the real implementation time with the aid of the previously executed virtual implementation and also makes the whole process reliable to planning.

Adaptations and further developments without affecting the current production

Also during adaptations, further developments of **di:ALog material flow** or during exchanges of control components, the necessary evaluations, tests and implementations can be simulated previously in almost real conditions. The actual production thereby is not being affected!

Advantages of the simulation coupling

- Drastic reduction of production down times by fast implementation of the system
- Development, test and implementation in almost real conditions
- Avoidance of errors in the real system
- Reproducible tests of the real control (endurance tests, interference scenarios, worst-case scenarios and use-case scenarios)
- Increased planning quality and planning reliability by what-if-analysis
- Certainty at investment decisions
- Instructions to the operating personnel without disturbing current processes
- Reduction of on-site-times of system administrators
- Presentation of simulated facilities already while contract negotiations



: Comprehensive solution from one source

Our supply and service range comprises software, hardware, modules and complex systems for the optimization of any material and goods flows within the company as well as consulting and project management. Certified interfaces set stable connections to SAP or other ERP systems.

Dresden Informatik Advanced Logistics Suite

- di:ALog *warehouse*** - the innovative warehouse management
- di:ALog *material flow*** - the material flow calculator
- di:ALog *yard*** - the yard management system
- di:ALog *automation*** - automation in the warehouse
- di:ALog *track&trace*** - package and goods tracking
- di:ALog *kanban*** - the modular eKANBAN solution
- di:ALog *link*** - the intelligent IoT-Middleware
- di:ALog *mobile*** - the Mobile Data Capture

Hardware

Barcode technology
RFID technology
Mobile data capture devices
PCs and server applicable for industry
Network and WLAN technology
Warehouse and tracking technology
Specialized solution



Dresden Informatik GmbH

Tannenstraße 2 D-01099 Dresden

Tel: +49 (351) 82 66 5-0 Fax +49 (351) 82 66 5-55

www.dresden-informatik.de info@dresden-informatik.de