



**FORKLIFT
CONTROL
SYSTEM**

The stylized 'F' logo is composed of two overlapping shapes: a yellow 'F' on the left and a black 'F' on the right, creating a sense of depth and movement.

Drive smart
– Save hard!





The **iFD GmbH** plans, develops and implements software systems for automated and manual fields of intralogistics worldwide. The range of products and services consists of:

- › **Warehouse Management System**
- › **Material Flow Control System**
- › **Forklift Control System**
- › **Picking Solutions**
- › **Simulation**
- › **Individual Software Solutions**
- › **Service and Support**

iFD GmbH owns an independent research and development department. This is an important requirement to guarantee a permanent innovation and advancement process for all software systems and add-on components.

Since the founding of the company in 1990 iFD realized over 300 cross-industry projects.

A continuous development and active research projects, as well as an ongoing improvement of concepts and products are a guarantee for success for adapted software systems. These software systems represent the perfect logistic solution for multiple national and international customers.



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TRANSPORTATION- MANAGEMENT

- › Generation of transport orders
 - Through standard interfaces to ERP- & WMS systems
 - Manual entry via self-learning dialogue systems
 - Automatic creation in reaction to signals, cycles and events
- › Real time assignment to all used vehicles
 - Optimal utilization
- › Traceability and tracking

The Forklift Control System works in real time

Processing the „correct“ order in every moment – real time assignment of the FCS makes it possible. The result is an optimal utilization of all forklifts, which no longer requires an area allocation.

The Forklift Control System saves time

The system permanently provides propositions for consolidating and sequence planning. Because of the combination of transports, search and empty runs are reduced as well as travel distances.

The Forklift Control System adapts

The Forklift Control System is geared to your transportation processes. The permanent generation of efficient transport orders stems from this perfect interaction, which enable an appropriate supply of goods.

The Forklift Control System works simultaneously

The Forklift Control System succeeds in the simultaneous processing of several order types with individual process sequences. Additionally the software recognizes blocked or misplaced pallets and defines on basis of this information alternative transport routes.

The Forklift Control System is capable of learning

Profit from easy to use dialogues, which facilitate the entry of orders. A further advantage: Because of its self-learning entry dialogues the iFD forklift control system can be used as an affordable stand-alone solution.





DYNAMIC PRIORITIZATION

- › Real time prioritization of every transport order
- › Integrated time and process controlled priority management
- › Combination of movement strategies
- › Flexible control of priorities, keeping within cut off times and shortening of lead times

The Forklift Control System weights options

What is important in this very moment? In which order must the forklift runs take place? The Forklift Control System operates by means of the priority principle. Thus priorities of orders and processes are reconciled and conflicts eliminated.

The Forklift Control System keeps an eye on the equipment

The route optimized scheduling and matching reduces the maintenance costs of the equipment. Additionally an integrated maintenance management provides appropriate servicing.





BUSINESS INTELLIGENCE

- › Elicitation of key performance indicators on measuring points
- › Real time reports on a dashboard or mobile device
- › Permanent analysis of trends

The Forklift Control System identifies potentials

Key performance indicators are the precondition for transparent analyzation and improvement of business processes. With the aid of comprehensive statistical assessments the system can generate the KPIs and therefore provide substantial data for internal management reports.

The Forklift Control System is swift

More than one million orders can be prioritized online in a matter of seconds. Due to an integrated match code filter the operator is easily able to quickly find the right data.

The Forklift Control System is mobile

The smartphone is essential! Here again the technologie is up-to-date. The monitoring is possible via smartphone, which for example allows proactive planning and faster reaction times.





ROUTING & TRACEABILITY

- › Forklift tracking and -tracing
- › Avoidance of empty runs and search times
- › Display of performance data, disorders and workloads
- › Integrated driving assistance and navigation system

The Forklift Control System navigates

A 3-dimensional display of the transportation network makes it possible. With this digital aid, the forklift operator can easily select paths and spend less time searching.

The Forklift Control System takes the shortest route

Firstly, the system calculates an optimal sequence of the transports and hence identifies the shortest route. Secondly, the live displayed transfer transports reduce the amount of empty runs.

The Forklift Control System is flexible

Using the graphical editor the transportation network can be independently edited in the data management. Layout changes therefore do not cause subsequent costs and the user can adjust the system quickly.





PROCESS RELIABILITY

- › Monitoring of all picking and unloading steps via scan, RFID or geo-localization
- › Securing of the execution sequence
- › Transmission of data in real-time to primary systems
- › Shipment processing in six-sigma quality

The Forklift Control System establishes reliability

The automated reading of activities, the integrated real-time interfaces to other resource systems, as well as shipment processing within quality standards lead to excellent process reliability.

Additionally the easy and intuitive operation of the FCS contributes to declining error rates and shortening of times needed for work steps.





SIMULATION AND OPTIMIZATION

- › Analyzation of the fleet structure
- › Determination of optimal weighting indexes via self-optimizing simulation runs
- › Determination of the ideal forklift count
- › Display of transportation procedures and processes
Benefits: quantification of different alternatives, demonstration of potentials
- › Simulation aided control and supervision of capacity utilization, throughput and deadlines
- › Process analyses and focus on problems



The Forklift Control System optimizes

A simulation illustrates processes in optimal conditions. By implementing the best practice simulation your profitability is going to increase. Using a web-based application initial data is combined with the aid of routing and processing strategies. Every simulation result points out saving

potentials. The simulation model calculates the optimal number of fork lifts. Complex processes and fleet analysis are implemented in the model as well. Simultaneously the gained findings provide information about how strategies in the system can be designed.



SUPPLEMENTARY MODULES

- › Monitoring by smartphone
Benefit: proactive planning and therefore fast reaction times
- › Needs-oriented fleet control
Benefit: efficient assignment of all vehicles due to balancing of different load conditions
- › Integrated route manager
Benefit: presentation, optimization and adjustment of the route network



Additional **Forklift-Control-System components** contribute to a higher order-related capacity utilization of your company. The intelligent resource management for instance provides an efficient management of the forklift fleet. **The Forklift Control System** can even be used as an instrument for increasing operational motivation - the system is able to record the data of all forklift drivers. Our experience and evaluations show that by using the **iFD Forklift Control System** your logistics costs can be reduced by up to 30%.

Modules:

- › Tugger train control system
- › Control of semi-automatic systems
- › Trailer management
- › Stock and warehouse management



CUSTOMER OPINIONS

„Continuous improvement of the material flow. One of the solutions is the forklift control system by iFD GmbH.“

Thomas Ganzmann
Department Leader
Inbound Logistics,
Siemens-Gerätewerk Amberg

„We have taken a conscious decision for iFD GmbH. iFD is a regional provider which competently realizes our requests. Eurofoam Sachsen operates Just-in-Time. Therefore, it is especially important to continuously utilize our production machines order related. We can manage this with the forklift control system by iFD GmbH. Additionally the FCS provides a steady but constantly changing material supply with high flexibility. At the same time we could reduce production and provision costs with this system.“

Uta Heinzinger
Product Manager
Eurofoam Deutschland GmbH,
Schaumstoffe Werk Sachsen

„The decisive factor for us was the flexibility of iFD GmbH to develop a forklift control system that is precisely tailored to our processes and is also characterized by a good price-performance ratio. Furthermore, when selecting the forklift terminal hardware, iFD GmbH proved to be a competent and cooperative partner.“

Hermann Schätzlein
Head of Materials Management and Logistics,
Koenig & Bauer Aktiengesellschaft

„The main aim for us is the process-reliable organization of transports of internal goods. A cutover from the individual decision from the drivers to the forklift control system should enable that required goods are delivered timely.“

Jürgen Schaper
Production Manager
Stamping Workshop,
Siemens AG Nürnberg

Why choose iFD?

Our customers invest their time and money. It is our duty to provide them in return with the highest possible profit in the logistics process by improving their performance. We think customer and solution oriented and respond – thanks to modern development platforms – quick and creative to new challenges. Benefit from our cross-sector know-how which we successfully apply worldwide and continuously broaden for more than 20 years and in more than 300 projects.





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