



K-store
Manage Your Warehouse

Goods In Management

K-store manages the booking in process. Goods are booked in and storage locations advised. Stock will be routed through the warehouse either by paper systems or hand held terminals. The goods-in process has four stages;

1. Goods are accepted into the system on a PC station. Locations are allocated or selected, any required product/pallet labels could be printed if required.
2. A list of goods to put away is created and printed.
3. The goods are put away.
4. The put away action is confirmed directly at a PC terminal.
5. Alternatively the pallets can be put away directly from goods in to a location by means of the hand held terminals.

These actions are recorded in the transaction log.

Any appropriate labels are printed and applied to the stock. Transactions are generated and can be repeated back to the host computer.

Location_Id	Article_No	Area	Position	Stock_Level	Min_Level	Max_Level
03-CC-00	0	3	0	0	20	700
03-CC-01	0	3	1	0	20	700
03-CC-02	0	3	2	0	20	700

Bulk Pick Management

As well as picking from pick-faces (racking or automatic storage). Bulk picking is also managed, whether this is for order fulfilment, replenishment, pick-stock or general warehouse management.

Picking requests can be printed or sent to a hand held terminal. The goods are picked and the action is confirmed either directly at a PC terminal or via Radio Data Terminals.

ALL actions are recorded in the transaction log.

Pallet, Product Barcode Readers

To allow tracking of product and pallet labels can be printed. The layout and use of labels is customer specific. Most labels would include a barcode. Typically labels would be applied to the pallet itself as well as to product outer cartons.

Article Details

The system records part details for each item held within the system. The following screen shows typical part data:

The image shows two overlapping software windows. The 'K Location Setup' window in the foreground has the following fields: Location_Id (01-AA-67), Location_Type (Pick), Site (Industrial), Area (1), Position (67), Supplier_Ref, Article_No (0), Stock_Level (0), Max_Level (700), Min_Level (20), Message, Preferred (67), Batch_No, and Batch_Date (2006-05-15 00:00:00). It includes buttons for 'Find Location', 'Clear', 'Show All', 'Add', and 'Change'. The 'K Article Setup' window in the background has the following fields: Article_No (000064), Description (Silver Coffee Mug), Description_Long (Standard Item (Long Description)), Level (20), Level (520), and Qty (500). It includes buttons for 'Find Barcode', 'Find Article', 'Clear Edits', 'Change', and 'Insert'. A text box in the 'K Article Setup' window contains the instruction: 'To add a Barcode you must have the article in the system. To Delete an Article you must remove all the Barcodes first. Care must be taken to ensure the Article/Barcode is not currently used in an order'.

Location Setup

The system would allow for the actual pallet storage locations to be “set-up”

Part Picking

This is a specific picking function provided to cope with single picks. Parts can be picked on the basis of part number, location or description. Bar-coding could be used to speed up this operation. These actions are recorded on the transaction log.

Stock Transfer

This is a specific function to transfer products between stock location and/or storage types. The transaction can be performed from a paper listing of transferred to a hand held Radio Data Terminal. These actions are reordered on the transaction log.

Report Preview

Stock Movement Date: 02 June 2006 Time: 10:21 AM

Artical No	From	To	Add	Move Date	Message	Check
123456	01-AA-04	01-CC-00	50	16/05/2006	1	<input type="checkbox"/>
001234	Goods In	01-CC-05	300	17/05/2006	0	<input type="checkbox"/>
123456	Goods In	01-CC-02	300	19/05/2006	0	<input type="checkbox"/>
123456	Goods In	01-AA-00	300	19/05/2006	1 top up stock	<input type="checkbox"/>
123456	Goods In	01-AA-02	100	01/06/2006	0 testing	<input type="checkbox"/>

StockTransfer

Destination:

Location_Id	Artical No	Stock_Level	Min_Level
03-BB-00	0	0	20
03-CC-00	0	0	20
03-AA-00	0	0	20

Preference:
 All Pick Locations
 Pick Face Locations
 Bulk Pick Locations
 Bulk Locations

Find Shortage Empty Locations Site: Commercial

Transfer:
 Location: 01-CC-05 To: 03-CC-00
 Artical No: 0 Site: Commercial
 Transfer Qty: 0
 Site: Industrial

Stock Locations:

Location_Id	Artical No	Stock_Level	Min_Level
01-CC-05	0	0	56
01-BB-01	0	0	0
01-FF-00	0	0	0
01-EE-00	0	0	0

Preference:
 All Pick Locations
 Pick Face Locations
 Bulk Pick Locations
 Bulk Locations
 Any

All Sites Site: Industrial

Part Replenishment

This specific function is provided to cope with replenishment. Part replenishment is based on the part number, location or part description. Parts are booked to a particular location. Bar-coding could be used to increase the speed of this operation.

These actions are also recorded on the transaction log.

Picking by List

Pick lists can be maintained locally or can be downloaded from the customers host computer, this depends on the options chosen. Each pick list has a unique reference. The operator simply enters the pick list reference, the storage unit will then rotate to each location in turn. The picking sequence is optimised by location to increase picking efficiency. A transaction log entry is automatically made for each item picked, the pick list can be printed if required. In the event of a shortage the actual quantity picked is entered. When picking using a hand held terminal, the flow is a little different.

Hand Held Terminals



The hand held Radio Data Terminals could be based around several different types, we would work with the client to evaluate the exact type required for their particular application..

Picking information is downloaded into the hand held from the PC this is done via a radio network around the warehouse facility.

When downloaded the hand held terminal will show details of the first item to pick. The part-number, description, location and quantity to pick will be displayed. The picker scans the part number and/or location, picks the required quantity (or enters the actual quantity in the event of a shortage).

Once confirmed the next item to pick is shown and the process continues until all items in the list have been picked. When the order is complete the picker is informed and the next order can be downloaded.

The process is roughly as follows:

- List is downloaded
- Display shows:
 - Product . Description.
 - Location. Qty to pick.
- Picker moves to location.
- Picker scans location and/or part.
- Product is picked.
- Action confirmed,

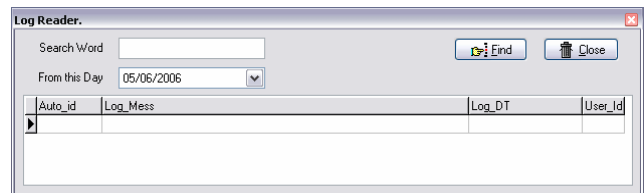
Next item until list finished.

The picker is then instructed what to do with the Unique Article Carrier (UAC)

Other arrangements in terms of picking flow are also possible and are subject to further discussion.

Transaction Log

All stock movements and corrections are written to an internal transaction log. This allows events to be audited. The transaction log can be printed out from time to time and cleared down.



Multiple Locations

If desired parts can be stored in more than one location. Choices of location are offered when picking as stock runs out, if FIFO is enabled the oldest will be offered first.

First In First Out (FIFO)

K-store keeps a record of each article held within the storage system, together with the date when it was stored. When picking, the oldest stock will be offered first, unless the item has a batch date – in this case the oldest batch will be used, with the ability to override if the need arises. In some cases quantity demanded will not be satisfied at the oldest location. In this case the goods will be picked from more than one location to satisfy the demand.

Full Stock Control facility will be offered

Article History

Using the internal transaction log, a history of movements for any given part can be displayed or printed.

Free Location Map

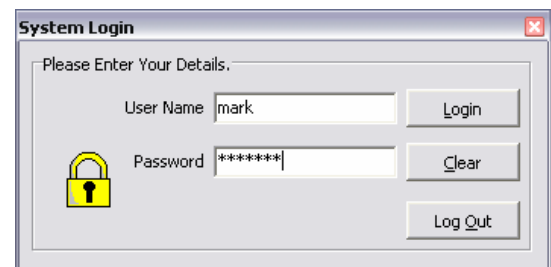
The system keeps track of free locations. These can be displayed or printed as required.

Min/Max Stock Levels

The system stores a minimum and maximum stock level for each part. If stock falls outside either of these ranges details are presented in an appropriate report.

Passwords

The system allows for the assignment of user identification codes and passwords. Only users issued with the correct identity and password can access the system. Users can be restricted within operations that can be performed based on their user status.



Printed Reports

A range of printed reports are available within the system, the following represents the standard range of reports.

- Full Inventory Report.
- Stock Valuation Report.
- Order History Report (Who Picked What / When).
- Free Location Report.
- Minimum Stock Report.
- Maximum Stock Report.
- Stock Movements Report.
- Pick List Report.
- Transaction Log.
- Despatch note.

Training

The system will be fully commissioned on site before hand-over to the customer. A 'Hands on' training session will be provided on the customer's premises for relevant operational and supervisory staff.

Perpetual Inventory Module

The perpetual inventory module allows the stock to be cycle counted, this ensures stock accuracy. Several count strategies are provided:

Product Trace-ability

When booking goods in or out of the system, trace-ability references can be optionally recorded. These will appear within the transaction log and article history.

Customer Specific Reports

K-store comes with a range of standard reports. Customers may of course have specific requirements for any additional reports. These can be provided for as required and will be subject to an individual quotation.

Customer Specific Programming

K-store comes with a range of features and functions, however customers may of course have specific requirements for additional functionality. This can be provided for as requested and will be subject to an individual quotation.

System Hardware

K-store will be offered based upon a PC based computer sub-system. The exact specification of equipment will depend on the desired configuration.

However, k-store is designed to run Windows based 'industry standard PC's'. and ANY hand held terminal running a Terminal Emulator package.

