

Exensys Software Solutions Ltd.		AA/B/CCDD V x.y
White Paper		W. E. F. dd/mm/yy



eXensys – Item Specification [®]

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Business Performance Sustained

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Introduction

Objective of this document is to furnish a conceptual analysis of items with specification properties in the Inventory Management. Items with dimensional variations can be treated as a sub set of the item.

Overview

Specification is an explicit set of requirements to be satisfied by a material , product or service. In engineering , manufacturing and business , it is vital for suppliers, purchasers, and users of materials , products , or services to understand and agree upon all requirements.

- **Basic Master – Item specification**

In the basic master specification for an item is defined.

Specification Code	Name
O.D	Outer Diameter

Specification Code	Name
I.D	Inner Diameter

Specification Code	Name
L	Length

- **Item Master -General Data**

In the general data master items are created and mapped to Organization. Then the required Sub-organization where the item is planned for usage is entered. The item type, item category and item group information is provided specific to Sub-organization level. If for the item specification applicability is defined then specification details for the item to be mentioned.

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Sub organization	SO1
Ware House	WH1
Item code	Rod
Base UOM	No.

For the spec. applicable items specification details to be defined.

Item Specifications		
Code	Name	UOM
O.D	Outer Diameter	mm
I.D	Inner Diameter	mm
L	Length	mm

- **Item Specification Master**

If the item is having specification applicability, specification set will be created with defined specifications.

Specification Set Code	Rod*8*4*100
Item Code	Ix

Specification Code	UOM	Value
Outer Diameter	mm	8.000
Inner Diameter	mm	4.000
Length	mm	100.000

Specification set code will be automatically updated after entering the specification value. At the time of transaction dynamically specification set code can be created. If the variants are known then SKU master is used but if there are dimensional variations then item specification code can be used effectively.

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If the same item Rod is received in different dimension value that scenario can be addressed as below.

Specification Set Code	Rod*8*4*120
Item Code	Ix

Specification Code	UOM	Value
Outer Diameter	mm	8.000
Inner Diameter	mm	4.000
Length	mm	120.000

Inventory Receipts

Items are received in the inventory and stored in different stock types. If the item is having specification applicable then items are stored specification specific stock. At the time of transaction itself user can create sub item for an item with different dimensions.

Sub organization	SO1
Division code	Div1
Goods Receipt Note	GRN001
GRN Date	10.09.08
Vendor Code	V001

Item Code	Item Name	Specification	UOM	Received Qty.	Price	Amount	LC price
Rod	Rod	Rod*8*4*120	No.	100	10	1000	10

Standard Reports

- **Stock Register**

In the stock register specification wise items are posted with accurate quantity. Stock register can be generated from and to date. Opening balance of the item, receipt qty. of the item, Issued Qty. of the item and closing balance qty. of the item as per the selected date will be populated. In the stock register all the movements of the item is highlighted like the items laying at vendor place and items laying at shop floor etc. The benefits of the report for the user are as follows:

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1. Day wise closing balance of items
2. Details of movements with transactions details
3. Exact location of storage with lot, manufacturing date, grade information

Item Code	Item Name	Specification	UOM	Opening Balance	Received Qty.	Issue Qty.	Closing Balance
Rod	Rod	Rod*8*4*120	No.	0	100	0	100

- **Stock Ledger**

In the stock ledger specification wise items are posted with accurate quantity and value . Stock ledger can be generated from and to date. Opening balance of the item with value, receipt qty. / value of the item , Issued Qty./ value of the item and closing balance qty./ value of the item as per the selected date will be populated. In the stock ledger all the movements of the item with value is highlighted like the items laying at vendor place and items laying at shop floor etc. The benefits of the reports for the user are as follows:

1. Day wise closing balance of items along with value
2. The total receipt value and issue value for the period selected can be taken
3. Issue price for all issue movements can be taken which is calculated based on valuation methodology selected for the item
4. Item category wise value of inventory is known
5. Sub-organization wise value of inventory is known

Item Code	Item Name	Specification	UOM	Opening Balance	Receipt Qty.	Issue Qty.	Closing Balance
Rod	Rod	Rod*8*4*120	No.	0	100	0	100
				0	1000	0	1000

- **Current Inventory Report**

In the current Inventory report specification wise items with quantity and value as on date will be populated. Unit rate of the item also will be populated. The benefits of the report for the user are as follows:

1. The item balance and value can be taken at any point of time.
2. Location wise items quantity can be viewed
3. Stock type wise quantity of items can be viewed

Item Code	Item Name	Specification	UOM	Quantity.	Unit rate	Stock Value
Rod	Rod	Rod*8*4*120	No.	100	10	1000

Benefits

- Unknown variants can be mapped to an item dynamically at the time of receipts.
- Specification wise stock Details and provision of specification wise item availability check .
- Tracks effectively all customer and vendor movements for specification wise items.
- This will be helpful for the items which require dynamic definition of specification.

Conclusion

- Integration with Inventory Control results in enhanced capabilities in the Inventory Adjustment, Warehouse and Bin Transfers, Internal Stock Issues and Physical Count functions that allow you to process inventory transactions up to the item specification level.
- Integration with Sales Order and Purchase Order modules enhances the basic functionalities of each of these modules to support the posting of orders and/or invoices up to the specification level.

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- eXensys Inventory Management provides the ability to define basic and multi-level pricing for each specification code combination through Inventory Basic Price Maintenance.

