

## How to use Volume for Overflow Putaway. Save Setup with Regions and how to do Pallet ID setup for putaway.

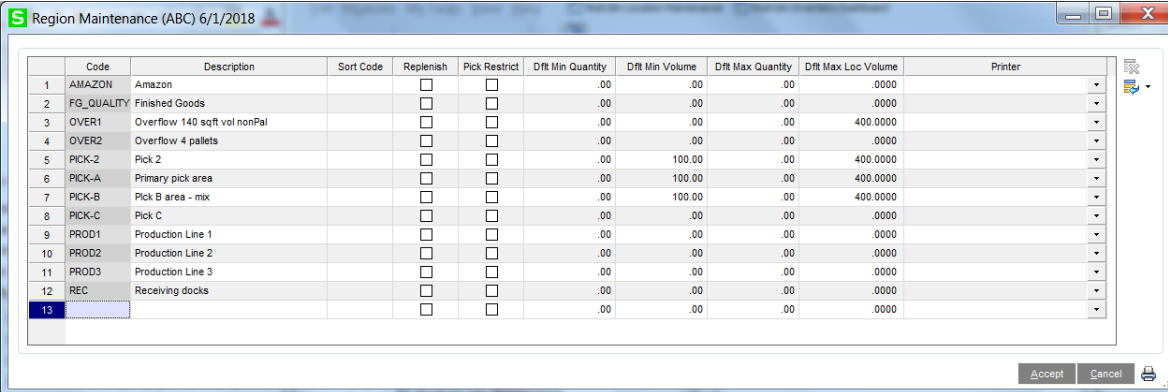
### Why do you use Volume to put goods away in locations?

Life is easy for our **primary** bin locations. These **primary** locations have the same items all year long so we can designate the maximum quantity of items that fit in or the quantity we just want in the primary bin location. However, for the other locations (which generally are not primary) have different sized items in locations different times of the year. Often **Overflow** locations are like this and so are **other Pick** locations. Businesses will have let say 60% or 80% of their items in Primary Pick locations and then the remaining 40% or 20% will be in these other Pick locations (i.e. non-primary). We will use **Volume** setup (not Quantity setup) for items that go into these locations where we need to know how big are the items and how big are the locations.

- 1) We define how much will fit into every bin location in Bin Location Maintenance – how big by Quantity and by Volume.
- 2) We define how big items are in Item Maintenance – i.e., volume field.
- 3) In Region Maintenance we can say how big every location in the region – by Quantity and by Volume.
- 4) In the Item we can say how many of an item will fit in a location in the Region.
- 5) In the Putaway Dashboard we can override how much will fit in a location so the system will remember the next time we receive the item.

**So, with these rules in mind we can come up with the optimum and most efficient setup for directed putaway – (1) Volume in the Item and (2) Volume in the Region and (3) Regions should have locations which are the same size.**

- 1) **Region codes should be setup for each section of the warehouse where you have the same sized locations.** Region Code maintenance is located under the Inventory – Setup menu. For directed putaway, you only need the Region Code and Description.
  - The **Default Maximum Quantity and Volume** fields set the default capacity of a bin location assigned to the Region. Maximums can also be set in Item maintenance/Multi-bin Tab – Primary Region setup screen so you set a maximum for the item in locations in the Region. The Item setting is the most accurate and ultimate setting when set. Bin Location maintenance also provides defaults by the bin.
  - The **Default Minimum Quantity and Volume** fields set the default minimum replenish point for a location assigned to the Region. Primary bin location setup in Item Maintenance/Multi-bin tab provides the most accurate setting and is the ultimate setting.
  - To VI import Region Codes import to the IM404\_Region file. After creating the region codes then you will assign region codes to the bin locations (IM404\_BinLocation).



Code	Description	Sort Code	Replenish	Pick Restrict	Dft Min Quantity	Dft Min Volume	Dft Max Quantity	Dft Max Loc Volume	Printer
1	AMAZON		<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
2	FG_QUALITY	Finished Goods	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
3	OVER1	Overflow 140 sqft vol nonPal	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	400.0000	
4	OVER2	Overflow 4 pallets	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
5	PICK-2	Pick 2	<input type="checkbox"/>	<input type="checkbox"/>	.00	100.00	.00	400.0000	
6	PICK-A	Primary pick area	<input type="checkbox"/>	<input type="checkbox"/>	.00	100.00	.00	400.0000	
7	PICK-B	Pick B area - mix	<input type="checkbox"/>	<input type="checkbox"/>	.00	100.00	.00	400.0000	
8	PICK-C	Pick C	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
9	PROD1	Production Line 1	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
10	PROD2	Production Line 2	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
11	PROD3	Production Line 3	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
12	REC	Receiving docks	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	
13			<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000	

- 2) **Volume setting per Item in Item Maintenance and Default in Options.** To assist quick implementation the Multi-bin Options – Directed putaway provides a single VOLUME size that can be immediately used for your inventory. It defaults at 1 cubic foot. Set the Volume field in Item Maintenance (file CI\_Item) to set the size of your inventory. Use any factor that makes sense for you and cubic foot is common and then use that factor for the bins/regions.

The left screenshot shows the 'Item Maintenance' window for item 2480-8-50. The 'Volume' field is highlighted with a red box and contains the value 0.1250. The right screenshot shows the 'Multi-Bin and WMS Company Options' window. The 'Default Item Volume size for Capacity' field is highlighted with a red box and contains the value 0.2500.

- 3) **Putaway Defaults and Region Replenishment** provides settings for Regions for Directed Putaway and Replenishment. You can select Region codes to default where you want directed putaway storage the item. Product Line Maintenance provides the same default. Set Minimum and Maximum replenishment for Quantities or Volume

The screenshot shows the 'Item Maintenance' window for item 2480-8-50. A dialog box titled 'Multi-Bin for Item Options' is open, showing 'Putaway Defaults and Region Replenishment' settings. The dialog box has a green border. The 'Putaway Aisle Codes' field is empty. The 'Putaway Region Codes' field is set to 'PICK-B'. The 'Fits per Loc in Region' field is set to 'Quantity'. The 'Replenish by Qty/Vol' field is set to 'Quantity'. The 'Pick Area - Primary Pick Locations' section shows 'Bin Location 1' (A30L) with a minimum of 10.00 and a maximum of 50.00. The 'Overflow and Other Areas' section shows 'Primary Locations for Overflow Area' with 'Overflow Area' having a minimum of 200.00 and 'Other Area' having a minimum of .00.

**Region Code 1 to 5:** fields default the item to these regions during Directed Putaway

**Minimum and Maximum Quantities/Volume –** for the item and locations in the region, the minimum field set the minimum replenishment point upto the value in the maximum fields.

**Fits per Loc in Region –** sets the quantity/volume of how much for the item will fit in a location in the region. Capacity per location in the region can also be set in Region Maintenance and Bin Location Maintenance. This field **Fits per Loc in Region** is the ultimate capacity setting for an item to a location.

**Putaway Aisle Codes Aisle 1 to 5:** defaults the item to these Aisle Code during Directed Putaway. When you have both Aisle code defaults and Region Code, directed putaway will process Aisles first and then process Regions.

4) **Bin Location Maintenance Capacity Options** provides capacity data overrides when you couldn't set the capacity from the Region and sets capacity information for Pallet IDs. Fields for Pallet IDs are marked with (ID) next to the fields. Capacity information in Bin Location maintenance is used in Directed Picking and Replenishment.

- **Min Quantity** provides the default replenishment when its not in the item or in region.
- **Max Quantity** provides the default replenishment when it's not in the item or in region.
- **Maximum Volume** provides maximum volume setting for the bin location. Applies to all items in the location – with and without IDs.
- **ID Type Code** select an ID type code and then you can set in Max Counts the maximum count of the ID or the Max Volume for the accumulated volume for the ID.
- **ID Putaway Volume in ID Type Maintenance.** Because ID's provide a cubic size greater than the accumulation of items that is in the ID – you can set unique volume sizes in ID Type Maintenance. The system automatically applies this volume when calculating based on Volume. When ID Counts are present for the ID – available ID counts supersede availability.
- **Only allow the ID types to this location.** When selected – the system will only allow putaway to the location with the ID Type Codes. This allows you to have locations dedicated for Pallet IDs and other IDs like case packs.

Pallet ID capacity by maximum count

Capacity by Volume and good for items with and without IDs

Code	Description	Sort Code	Replenish	Pick Restrict	Dft Min Quantity	Dft Min Volume	Dft Max Quantity	Dft Max Loc Volume
6	PICK-2	Pick 2	<input type="checkbox"/>	<input type="checkbox"/>	.00	100.00	.00	400.0000
7	PICK-A	Primary pick area	<input type="checkbox"/>	<input type="checkbox"/>	.00	100.00	.00	400.0000
8	PICK-B	Pick B area - mix	<input type="checkbox"/>	<input type="checkbox"/>	.00	100.00	.00	400.0000
9	PICK-C	Pick C	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000
10	PROD1	Production Line 1	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000
11	PROD2	Production Line 2	<input type="checkbox"/>	<input type="checkbox"/>	.00	.00	.00	.0000

Volume capacity can be set in Region Maintenance and will apply to locations attached to the Region.

PalletID Type	Description	Short Desc	Dft Quantity	Next Pallet ID	Putaway Volume	Dft Allow Break	
1	CONT	20L*79*8= 1280cubFt	Container	.00	CONT000020	1,280.0000	<input type="checkbox"/>
2	PAL	42"W*48"D*46"H=64cubFt	Pallet	.00	PAL000048	64.0000	<input type="checkbox"/>
3				.00		0.0000	<input type="checkbox"/>

Pallet ID's Volume is applied for capacity in directed putaway and replenishment

5) How do designate bin locations for Pallet IDs and inventory without an ID?

Field	For Standard U/M	For Pallet ID
Maximum Quantity or Maximum Volume	Yes	
Bin Maintenance ID Type Code 1,2 or 3 entered		Yes

Only allow the ID types to this location is unchecked OFF	For Standard U/M	For Pallet ID
Maximum Volume	Yes	Yes
Maximum Quantity	Yes	

Only allow the ID types to this location is Checked ON	For Standard U/M	For Pallet ID
Bin Maintenance ID Type Code 1,2 or 3 not entered	Yes	No
Bin Maintenance ID Type Code 1,2 or 3 entered	No	Yes