



Selecting Units

After developing a solid plan for mapping out material and product naming conventions, it is advised that units are considered.

InstantGMP™ employs an internal chart to automatically convert between units of a “measurement system” throughout the system modules. Users can identify materials in one unit, order in another and produce in a third unit where InstantGMP will do the conversion, round to and show six places to the right of the decimal (no use of sig figs). For QuickBooks rounding is to 5 places after the decimal point.

Static units (those with no conversion factors set up, such as “each, Bottle, box”) cannot be changed to other measurement systems later in the workflow. A material defined as ea. Cannot later be measured in g or L for example.

The Tmaterial screen is the first place in the workflow where users encounter material units:

A screenshot of the "Material" form in the InstantGMP system. The form includes fields for "Type *", "Part #", "Material Name *", "Unit *", "Material Id", "Material Description", "Cost/Unit", "Account", "Storage Condition *", "Recommended Shelf Life", "QM Retest Period (months)", "Vendor Catalog #", and "Preferred Vendor". The "Unit *" field has a dropdown menu open, showing a list of units: %, %RH, ampoule, bottle, box, carton, cm, degrees C, degrees F, ea, fl oz, ft, g (highlighted), gal, in, kg, L, lb, and m. The "Material Name" field contains "lactose monohydrate". The "Cost/Unit" field shows ".000000". The "Storage Condition" field shows "Condition". The "QM Retest Period (months)" field shows "0". The "Preferred Vendor" field has a dropdown arrow. The footer of the form displays "iGMP.TMaterial".

The unit selected on the Tmaterial screen will determine what measurement system will be available from which to choose units for various activities throughout the program.



The Tmaterial unit will be defaulted to; the system will display certain quantities expressed in the unit of measure from the Tmaterial screen where the material was originally defined.

Creation of outgoing materials requires the unit chosen at the Tmaterial screen to be the unit that will be used in Batch Production. Consider the end result of the product produced and what state it will be in the last time it leaves your facility. If the material could be measured in gallons as a WIP sold to other companies and will also be sold in bottles to consumers after packaging, consider creating two separate materials and MPRs so that the desired units can be chosen when creating an MPR. (see naming conventions and MPR vs BPR topics) Once a BPR is completed, the WIP/FG will be available to be added to inventory for further processing or sale.

Unit of “each”:

Inventory History
 Requisition # 0 Part # 249 Receipt # 209 Material Name Angioplasty Balloon Material Id Vendor
 Vendor Lot # Unit ea Received Date 12/18/15 Qty Rcv 201.000000 ea

Usage

Date	Used in Production #	Used Qty	Unit	Purpose	Qty Remain	Unit	Approved By	Approved Date	Approved TimeZone
08/17/16		50.000000	ea	sent to St. Jude's Hospital	51.000000	ea	p m (pm01)	08/17/16 03:48 PM	EDT
08/17/16		51.000000	ea	sold to Wake Med North Hospital	0.000000	ea	p m (pm01)	08/17/16 03:49 PM	EDT
02/26/16		100.000000	ea	Sent to R&D	101.000000	ea	p m (pm01)	02/26/16 04:08 PM	EST

Unit of “grams”:

Inventory History
 Requisition # 0 Part # 270 Receipt # 223 Material Name Bottled Starch Material Id Vendor
 Vendor Lot # Unit g Received Date 06/21/16 Qty Rcv 94.000000 g

Usage

Date	Used in Production #	Used Qty	Unit	Purpose	Qty Remain	Unit	Approved By	Approved Date	Approved TimeZone
06/21/16		1.000000	g	retain	93.000000	g	John Formento (JForment01)	06/21/16 03:47 PM	EDT
06/21/16		1.000000	g	finished goods testing	92.000000	g	John Formento (JForment01)	06/21/16 03:47 PM	EDT
06/21/16		92.000000	g	Fulfilled PO #123	0.000000	g	John Formento (JForment01)	06/21/16 03:53 PM	EDT



The system will convert between units in a measurement system for certain actions:

Action	Screen	Unit choice restrictions	Origin of Unit Displayed
Define material	Tmaterial	All units including static available	As chosen
Requisition	trequisition	Measurement system available	
Requisition read-only	iGMP.HTbRequisition01	N/A	Unit ordered in
Requisition summary	iGMP.HWWRequisition	N/A	Unit ordered in
Requisition PDF	N/A	N/A	Unit ordered in
Material Receipt summary	N/A	N/A	Unit ordered in
Receipt	iGMP.TMaterialReceipt	From measurement system	Unit chosen to receive
Receipt read only	HTbMaterialReceipt101	N/A	Shows both ordered and received units and amounts
Inventory Status	iGMP.HWWInventoryStatus	N/A	Shows unit received as received, shows Qty remaining expressed in unit from Tmaterial screen
Status PDF	N/A	N/A	N/A
Status read- only	HTbInventoryStatus01	N/A	Shows unit received as received, shows Qty remaining expressed in Tmaterial screen unit



Inventory management	iGMP.HWWInventoryUsage	N/A	Shows unit received as received, shows Qty remaining expressed in Tmaterial screen units
Inventory management history log Header	iGMP.HTbInventoryUsage01	N/A	Tmaterial unit displayed, Qty received displayed in received unit
Inventory management Log	iGMP.HTbInventoryUsage01	N/A	Qty Used matches that used on Tusage screen. Qty remain expressed in Tmaterial unit
Inventory Use	iGMP.TInventoryUsage	Measurement system	Qty remain displayed in Tmaterial unit
Depleted Inventory	iGMP.HWWDepletedInventory1		Shows unit received as received, shows Qty remaining expressed in unit from Tmaterial screen
MPR cover read only (material to be produced)	HTbMprCover01	N/A	Tmaterial screen unit
MPR cover (material to be produced)	iGMP.TMprCover	Auto-populated with Unit chosen on Tmaterial screen	Tmaterial screen unit



MPR BOM	iGMP.HTbMprCover02	Measurement system	Chosen unit
MPR manufacturing instructions summary	iGMP.HTbMprCover05	N/A	Unit chosen on BOM
MPR manufacturing instructions entry/read only (autopopulate on)	iGMP.TMprManufacturingInstructions	N/A	Unit chosen on BOM
MPR manufacturing instructions entry/read only (autopopulate on)	iGMP.TMprManufacturingInstructions	Measurement system	Unit chosen
Batch Production record	(all pages with units are direct copies fo MPR)	N/A	Unit saved on MPR
BPR manufacturing instruction steps: Material use via the Batch record	manufacturing instructions lead to inventory use button where	Measurement system	Unit chosen on material use screen