



Global 3000 Service Pack Note

Works Order - Component Wastage

Author	DCP		
Project	ZV60_000069		
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INTRODUCTION

This service pack provides the ability to enter component quantities net of wastage.

Currently, Global 3000 Manufacturer assumes that the quantity required for each component specified in the assembly list includes any wastage. There is a setting within the assembly list to allow users to specify that the quantity of the component required to manufacture the product (being manufactured) includes a percentage of wastage.

However, users of the Bill of Materials package (which can be upgraded from to G3000 Manufacturer) could specify a wastage percentage which was then added to a net component quantity specified in the assembly list to give the overall component quantity for the works order.

This service pack introduces a new system parameter (within the Manufacturer Operating Options) labelled 'Enter component quantities net of wastage'. When the new parameter is set the component quantity (specified in the assembly list) is a net figure required to manufacture the product and the wastage percentage is used to determine the 'gross' quantity required. For example, if the wastage percentage is 10% then this means that the component quantity specified is in fact 90% of the total quantity required to manufacture the product.

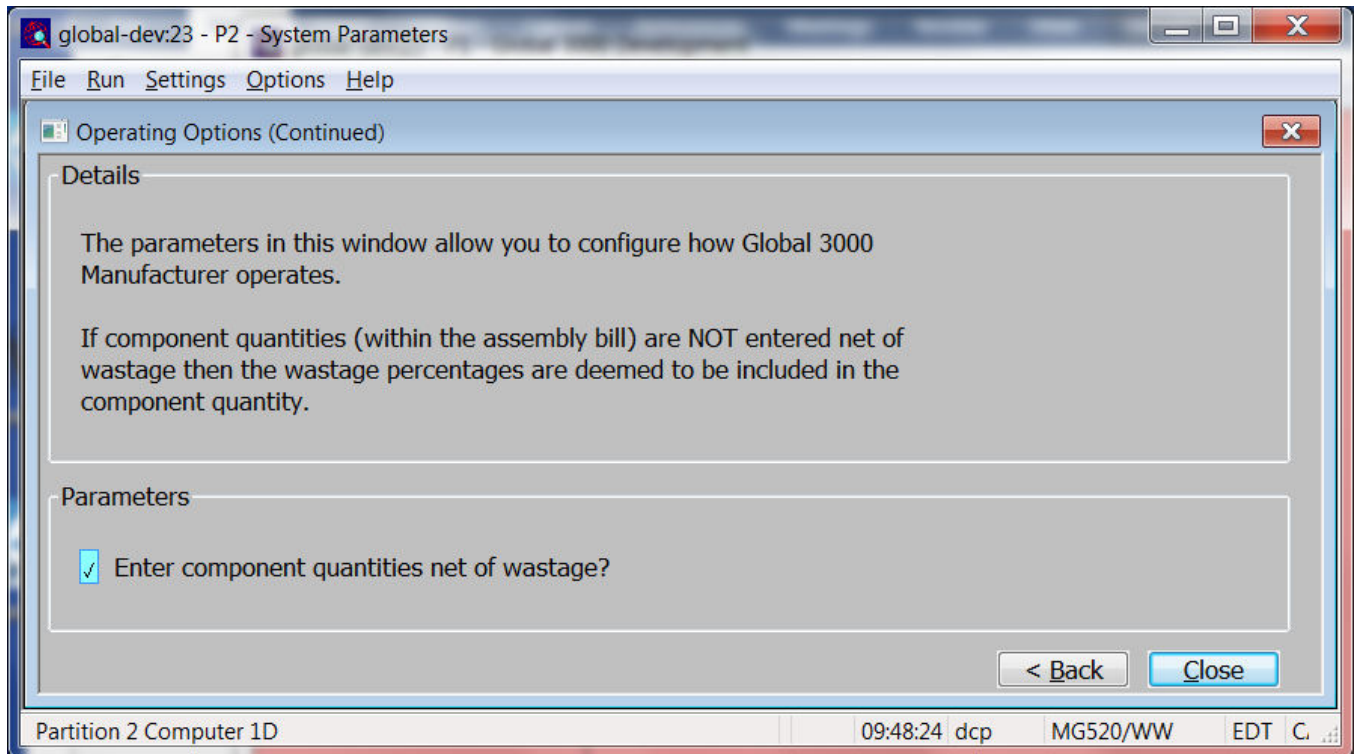
By default the new parameter is not set and it is assumed that the wastage percentage is included in the component quantity specified in the assembly bill.

Note: When component quantities are entered net of wastage quantities the formula used to calculate the overall quantity required to manufacture a product and the formula used to calculate the actual wastage quantity can be found in the documentation section below.

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DOCUMENTATION CHANGES

Manufacturer System Parameters – Operating Options (Continued)



This window appears when you complete your responses in the first operating options window.

Purpose This window allows you to configure the way in which Global 3000 Manufacturer operates.

The prompts are:

Enter component quantities net of wastage? Set this if you wish to enter component quantities (within the assembly bill) net of wastage. If this is not set, wastage percentages are deemed to be included in the component quantity.

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Formula

The formula used to calculate the overall quantity of a component required when component quantities are entered net of wastage is as follows:

- O = Overall quantity of component required.
- P = Quantity of end product being manufactured.
- N = Net component quantity from assembly bill.
- $W\%$ = Wastage percentage.

$$O = (P \times N) \times (100 / (100 - W\%))$$

The wastage quantity can then be calculated as follows:

- WQ = Wastage quantity.
- O = Overall quantity of component required.
- $WF = 100 / (100 - W\%)$

$$WQ = O - (O \times (1 / WF))$$

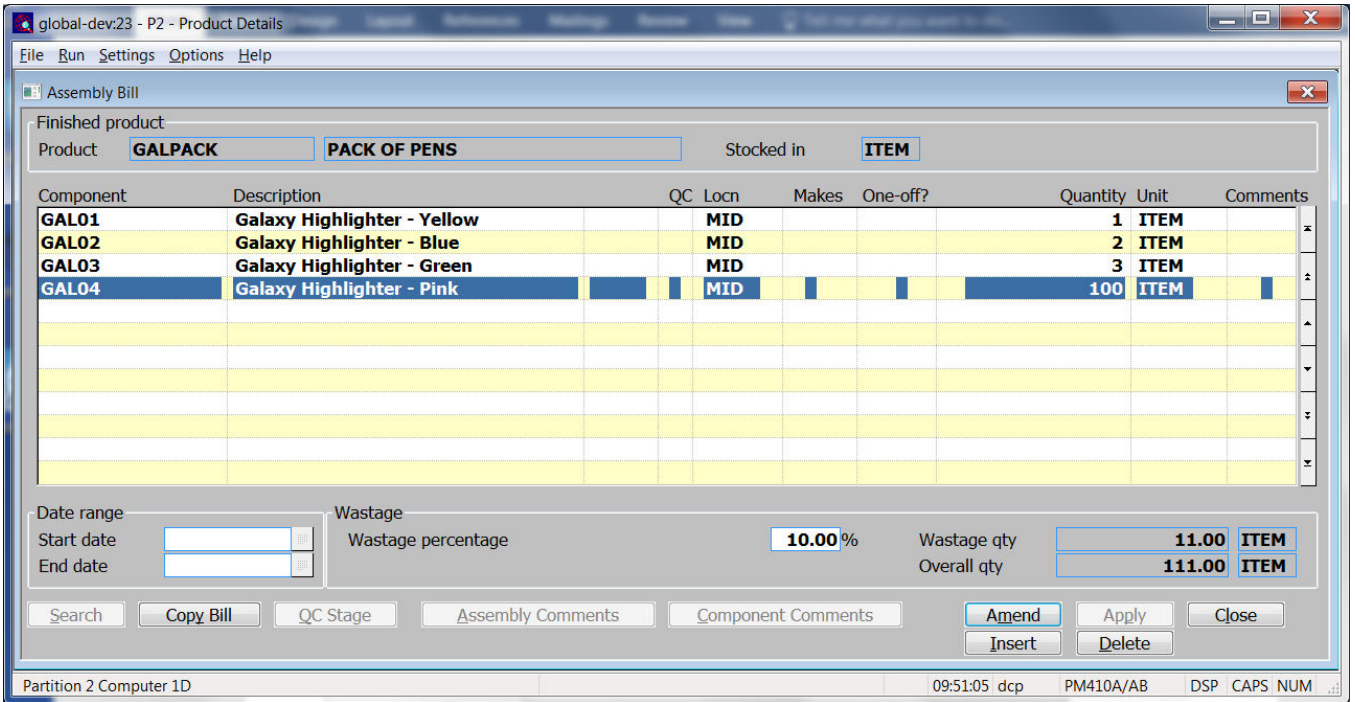
Example

Assuming the wastage percentage is set to 10% for a component with a quantity of 100.00 and a single product is being manufactured.

- If the system is configured to 'Enter component quantities net of wastage' then the component quantity is in fact 90% of the overall quantity required to manufacture the product. In this case the overall quantity required to manufacture the product would be 111.00 and the wastage would be 11.00.
- If the system is **not** configured to 'Enter component quantities net of wastage' then the quantity of 100.00 is deemed to include the wastage of 10% so the overall quantity required to manufacture the product would be 100.00 and the wastage would be 10.00.

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Product Maintenance – Assembly Bill



Wastage percentage/The quantity includes a wastage of

If the component is subject to wastage enter the wastage percentage here. Depending on how your system is configured the wastage percentage is either added to the component quantity when the works order is generated or is deemed to be included in the component quantity.

Example

Assuming the wastage percentage is set to 10% for a component with a quantity of 100.00.

- If the system is configured to 'Enter component quantities net of wastage' then the component quantity is in fact 90% of the overall quantity required to manufacture the product. In this case the overall quantity required to manufacture the product would be 111.00 and the wastage would be 11.00.
- If the system is **not** configured to 'Enter component quantities net of wastage' then the quantity of 100.00 is deemed to include the wastage of 10% so the overall quantity required to manufacture the product would 100.00 and the wastage would be 10.00.

Note

The wastage percentage and all quantities and values derived from it are for notation purposes only.

Wastage quantity

(Display only) The wastage quantity based on the component quantity and wastage percentage.

Overall quantity/Used quantity

(Display only) If the system is configured to enter component quantities net of wastage then the overall quantity is shown. The overall quantity is the component quantity plus the wastage quantity. If component quantities are not entered net of wastage, then the used quantity is shown. The used quantity is the component quantity less the wastage quantity.

Note

If the system is **not** configured to 'Enter component quantities net of wastage' the wastage quantity and used quantity are always shown to a minimum of two decimal places.

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