Production Management Cockpit

Produmex Manufacturing is a legacy product and Boyum IT Solutions no longer sells new installations for it.

Use the Production Management Cockpit to overview and manage the production orders. The listed production orders can be filtered and more than one production orders can be changed in one step. Open the cockpit via:

- Production > Production Management Cockpit
- Job Scheduling Control Panel > Feed to Management Cockpit.

The list of the production orders can be filtered with the following criteria:

- *Status*: When no checkbox is ticked, production orders will not be filtered based on the status. When at least one status checkbox is ticked, only the production orders with the selected status(es) will be loaded to the form.
- *Production Order From – To*: Only the selected production orders will be loaded.
- *MTO Scenario*: Only production orders belonging to the selected MTO scenario will be loaded.
- *Errors only (Y/N)*: Only production orders with 'Error' type 'Allocation State' will be loaded.
- To filter to a period only, select the Date type and then set the period with the *Date From* and *Date To* fields. Possible values for the *Date Type* are: 'All Dates', 'Release Date', 'Due Date', 'Begin Date', and 'Order Date'.
- *Sales Order From- To*: Only production orders linked to the selected sales order(s) will be loaded.
- *Start Date*: Only production orders with the added start date will be loaded.
- *Item Group*: Only production order for products belonging to the selected Item Group will be loaded.
- *Product From – To*: Only production orders for the selected product(s) will be loaded.
- *Project Code From – To*: Only production orders belonging to the selected project(s) will be loaded.
- *Hide Subassembly Orders (Y/N)*: If enabled, MTO child orders will not be displayed on the list.
- *MTO Scenario*: Only production orders belonging to the given MTO scenario will be listed.
- *Custom Code*: Only production orders with the given custom code will be listed.
- *Ignore Start Date*: If this setting is enabled and the user clicks on the 'Move Earliest' button, the production order start date is ignored when the system reschedules the MTO scenario.
- *Ignore Due Date*: If this setting is enabled, and the user clicks on the 'Move Latest' button, the production order due date is ignored when the system reschedules the MTO scenario.

Other user defined fields can be added as filters. Add the UDF name to the *'Cockpit UDFs for filtering'* field on the Prod.Order tab of the Produmex Manufacturing settings.

Loaded production orders are sorted based on the 'Sort by' setting. Possible values:

- *Prod. Order Number*: Ascending based on the production order number.
- *Item No.*: Ascending based on the code of the main product.
- *Item Name*: Ascending based on the name of the main product.
- *1st Operation*: Ascending based on the code of the first operation in the production order.

Press the **'Load'** button to load the production orders with the applied filter(s).

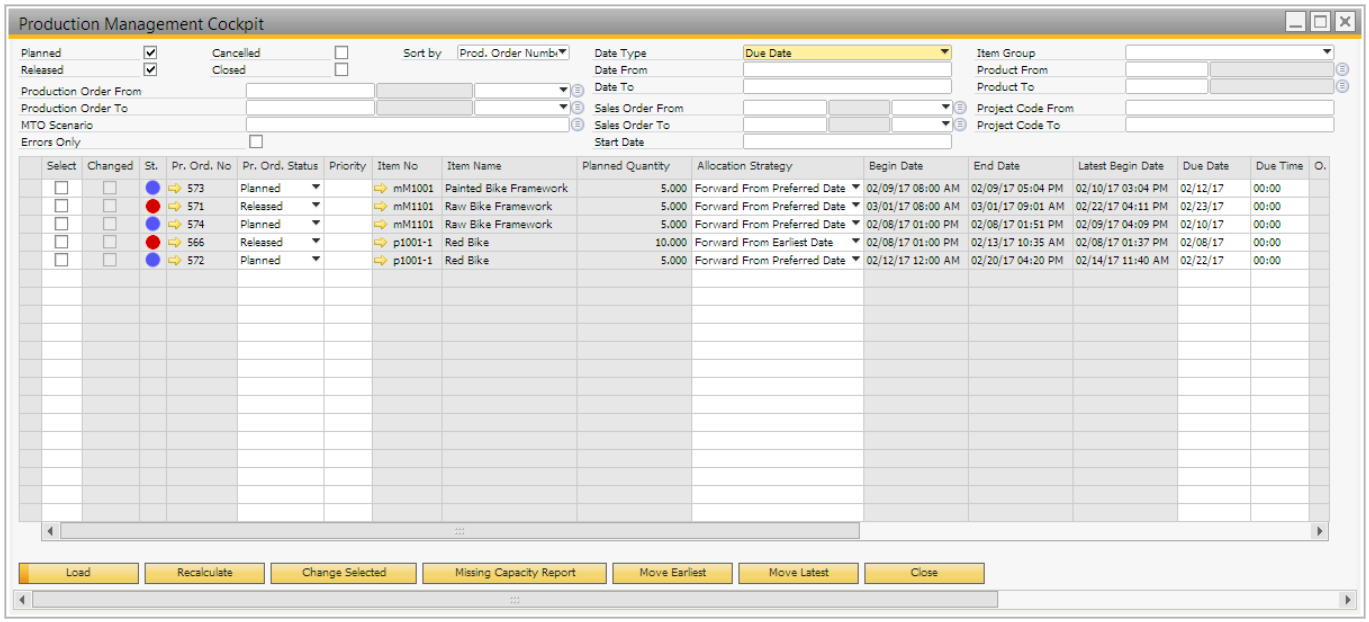
Press the **'Recalculate'** button to recalculate the scheduling.
Press the **'Change Selected'** button to change the details of the selected production order(s). On the opening form the following can be changed:

- *Production order status*
- *Allocation Strategy*: Back From Due Date/ Forward From Earliest Date/ Forward From Preferred Date (the default allocation strategy is the allocation strategy set as the *'Default Pr.Ord. Allocation Strategy'* on the Prod.Order tab of the Produmex Manufacturing settings.)
- *Start Date*: Change the start date of the production order.
- *Due Date*: Change the due date.
- *Due Time*: Change the due time.

Press the **'Update'** button then recalculate the scheduling by pressing the **'Recalculate'** button to apply the changes.
When reallocating more than one production order at the same time, the allocation order is defined by:

1. Priority (descending)
2. Due date (ascending)
3. Document number (ascending)

Press the **'Close'** button to close the form without making any adjustments.



Missing Capacity Report

When the 'Use Missing Capacity Report' option is set to true on the Prod.Order tab of the Produmex Manufacturing settings, an additional 'Missing Capacity Report' button is displayed on the form. Click on the button to open the 'Missing Capacity Report' for the selected production order.

Move Earliest

When the 'Move Earliest' option is enabled on the MTO tab of Produmex Manufacturing settings, an additional 'Move Earliest' button is displayed on the screen. Select a production order from the MTO scenario and click on this button to reschedule the MTO scenario to the earliest possible start date of the top order.

Move Latest
When the 'Move Latest' option is enabled on the MTO tab of Produmex Manufacturing Settings, an additional 'Move Latest' button is displayed on the screen. Select a production order from the MTO scenario and click on this button to reschedule the MTO scenario to the latest possible start date of the top order.

Grid:

- *Select (Y/N):* If ticked, the line is selected.
- *Changed (Y/N):* Indicates whether the production order was changed or not.
- *St.:* The production order status indicated with a color. Possible values:
  -  - Planned
  -  - Released
  -  - Released, but allocation error
  -  - Cancelled
  -  - Closed
- *Pr.Ord.Status:* The status of the production order. Possible values:
  - Cancelled
  - Closed
  - Planned
  - Released
- *Pr.Ord.No:* The production order number.
- *Priority:* The priority of the production order. Used when recalculating more than one production orders at the same time.
- *Item No:* The item code of the main product.
- *Item Name:* The item description of the main product.
- *First Operation*: The code of the first operation in the production order.
- *Custom code field*: The custom code of the production order that was defined on the Custom code UDF on the production order.
- *Planned Quantity:* The planned quantity copied from the production order.
- *Allocation Strategy:* The allocation strategy. Copied from the 'Allocation Strategy' UDF of the Production order.
  - *Back From Due Date*: For just in time manufacturing. The system will allocate work centers based on the Due Date.
  - *Forward From Earliest Date*: The system will allocate work centers based on the earliest possible start date.
  - *Forward From Preferred Date*: The system will allocate work centers based on the preferred start date.
- *Begin Date:* The begin date of the production.
- *End Date:* The end date of the production.
- *Latest Begin Date:* The latest begin time calculated from the due date.
- *Start Date:* The start date of the production order.
- *Due Date:* The due date of the production order.
- *Due Time:* The due time of the production order.
- *Preferred Begin Date:* The begin date calculated based on the capacity of the preferred work center.
- *Preferred Due Date:* The due date calculated based on the 'Preferred Begin Date'.
- *Earliest Begin Date:* The earliest possible start date.
- *Earliest Due Date:* The due date calculated based on the 'Earliest Begin Date'.
- *Recalc. Latest Begin Date:* The recalculated 'Latest Begin Date'. Filled after recalculating the production order.

- *Recalc. Preferred Begin Date:* The recalculated 'Preferred Begin Date'. Filled after recalculating the production order.
- *Recalcu. Preferred Due Date:* The recalculated 'Latest Begin Date'. Filled after recalculating the production order.
- *Recalc. Earliest Begin Date:* The recalculated 'Earliest Begin Date'. Filled after recalculating the production order.
- *Open Quantity:* The quantity still to produce.
- *Completed Quantity:* The produced quantity.
- *Origin Number:* The base document number. When the production order was created from a base document, the base document number and a link is added to this field.
- *Material Requirements Report:* Link to the Material Requirements Report. Material Requirements Reports can only be created for unchanged and released production orders.
- *Project Code:* The code of the linked project.
- *Order Date:* The Order Date of the Production Order.
- *MTO Scenario:* The name of the MTO Scenario.
- *Warehouse:* The SAP Business One warehouse code.

Produmex WMS Integration
If Produmex WMS is also installed on the database, two additional columns are displayed:

- *Pmx Production Line:* The WMS Organizational Structure code of the assigned production line.
- *Pmx Status:* The Produmex production order status. Possible values:
  - Planned
  - Started
  - Closed
  - On hold

The Produmex status is also indicated on the status icon if the SBO status of the production order is 'Released':

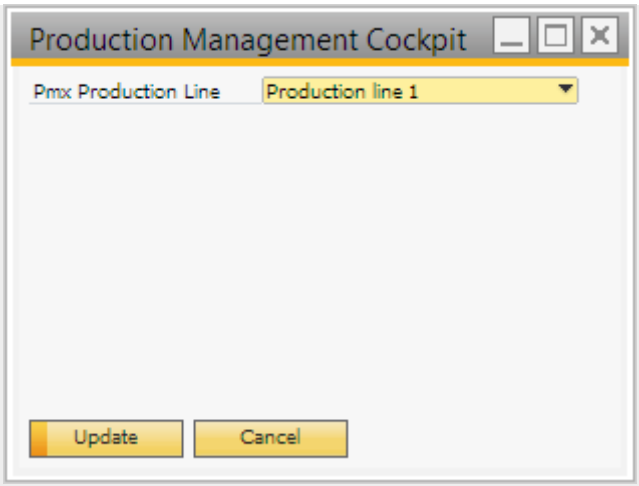
-  - Produmex status: 'Planned'
-  - Produmex status: 'Started'
-  - Produmex status: 'On hold'

Set Production Line
If Produmex WMS is also installed on the database, an additional 'Set Production Line' button is displayed on the screen.

To set a Produmex WMS production line for the production order, select the line of the production order. You can only set or change the PMX production line of production orders with 'Planned' SBO status.

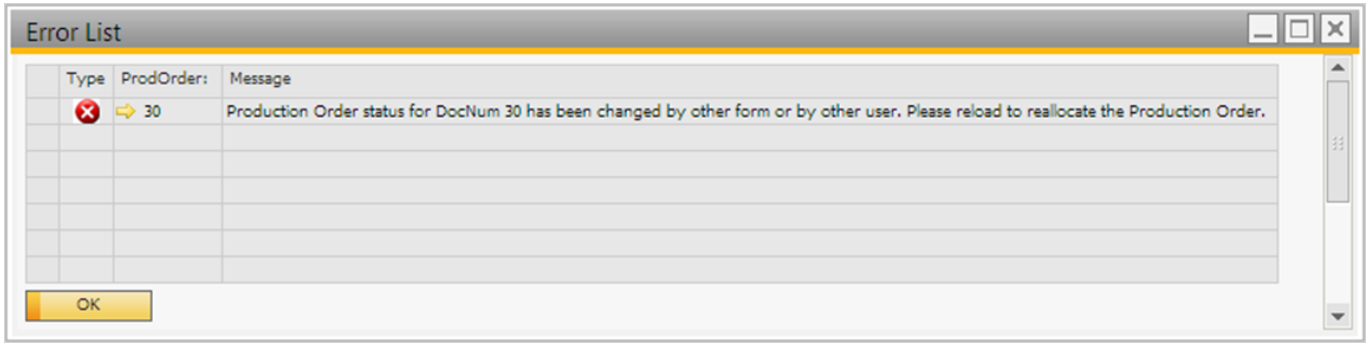
It is possible to set the production line for multiple production orders by selecting multiple lines. The selected production orders must be from the same warehouse.

Click on the 'Set Production Line' button. On the opening screen select the production line from the dropdown list. Every production line from the warehouse of the production order is listed. Click on the 'Update' button to save the changes.



Error List

An error list opens up when error(s) occur. On the list the error type, the production order number and the error message is displayed.



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Last update: **2021/04/20 09:43**