Quick Start Tutorial

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

1. Overview

1.1. Produmex Manufacturing

Produmex Manufacturing is an add-on for SAP Business One that extends the Production module of SAP Business One with new factor: manufacturing resources. The incorporation of this new concept required a myriad of modifications to the system forms and databases and new forms, reports and database tables.

A major strategic decision was that wherever SAP Business One has a solution for manufacturing concept, Produmex Manufacturing will re-use or extend that solution. For example, the original forms and database tables for Item Master Data, Bill of Material, Production Orders, MRP Scenarios and Recommendations have been reused and extended. The Material Resource Planning logic had to be completely rewritten, and when the user presses the Run button in the MRP Wizard screen, the Produmex Manufacturing Advanced MRP logic executed, and not the original simple MRP. The architecture of the add-on is backward compatible with the SAP Business One original simple Production Module; this make migration very simple and straightforward.

1.2. Business Benefits

From business perspective the major benefits the user of the add-on may get are as follows:

- The technology of manufacturing process can be defined with the operations and material requirements. The entire production process can be scheduled at the minute level. This way the company will have an exact schedule of the manufacturing resource consumption. Eventually it may come to light that the old processes were not efficient and fewer resources may produce the same results, or the same amount of resources could produce more products.
- Since the manufacturing process is scheduled the material requirements can be ordered just-intime. That is it is not needed to purchase all materials long before the materials are actually needed. This way warehousing costs can be significantly reduced and the money needed to finance the manufacturing process could be reduced.
- Since the manufacturing resources of limited capacity are taken into consideration when planning or scheduling the process, the result will be much more realistic.
- Since the add-on is fully and completely integrated with SAP Business One, there is no gap between the manufacturing system and the enterprise information (inventory, sales, purchasing, accounting, etc) system.

2. Setup and Installation of the Company

2.1. Installing the Produmex Manufacturing Add-On

Produmex Manufacturing is packaged and distributed as a regular SAP Business One add-on with an .ard and a self-installing .exe file.

2.2. Setup initial data

Produmex Manufacturing extended the standard SAP production module with manufacturing resources. Work centers are the primary resources. When using the multi-dimensional allocation strategy, supplementary resources such as employees, tools and constraints can be defined as well.

Before setting up the resources, create Shift Day Types and Shift Plans.

The shift day types are used when shift plans are defined for resources. A shift day type can contain multiple shifts. It is possible to add overtime and nonproductive shifts for administrative reasons, but such shifts are never used by the resource scheduling logic. The productive ratio determines how much of a shift is used by the resource allocation logic.

On shift plans a shift day type can be assigned for each calendar day.

| Administration | Shift Day Ty | pe | | | | | | | | | |
|--|------------------|-----------------------|--------------|---------------|-----------------|---------------------|-------------------|----------------|------------|---------|---|
| Choose Company | Code | nORMS | DT | | | | | | | | |
| Exchange Rates and Indexes | Name | Normal | Working Days | | | | | | | | |
| System Initialization | ConvertedTotalPr | odTime | 15:00 | | Converted Total | Time | | 09:00 | | | |
| | Converted TotalU | nprodTime Duartime | 01:00 | | ConvertedTotalV | VithOvertime Gao | | 16:00 | | | |
| Setup | chile | Desciption | Gride | | To Decidentics | te Ourstine | Deside at the Det | 100.00 | | | |
| 🛅 General | mOROT | Morning Quertime | Prom 1 | 08:00 | Is productive | Is Overtime | Productive Ra | 00 | 0.700 | | |
| Financials | mOR | Morning Shift | 08:00 | 12:00 | ▼ | | | | 0.750 | | |
| Connort unities | INCBR | Lunch Brake Shift | 12:00 | 42.00 | | _ | | | 4 000 | | |
| | aNN | AfterNoon Shift | 13:00 | Shift Plan Ye | ar | | | | | _ | |
| Purchasing | nGHTOT | Night Overtime | 17:00 | Shift Plan | rEGSP | | | | | | |
| Business Partners | | | | Years | 2017 | | | | | | |
| Banking | | | | Date | Month | Week | Day | Shift Day Type | • | Comment | |
| Inventory | | | | 01/01/17 | January | 52 | Sunday | Normal Workir | ng Days | • | - |
| | | | | 01/02/17 | January | 1 | Monday | Normal Workin | ng Days | - | _ |
| Resources | | | | 01/03/17 | January | 1 | Wednesday | Normal Workin | ng Days | * | _ |
| Service | | | | | | | - · · | | 5 | • | |
| Production | | | Shift Plan | | | | | | × . | - | _ |
| Shift Day Types | ОК | Cancel | Code | | rEGSP | | | |) A | • | _ |
| Shift Plans | | | Name | | Regular Sh | it Plan | | | 5 | • | • |
| Resource Features | | | -> | | | | | 2014 | | | |
| Work Centers | | | | | | | | 2015 | | | |
| Employees | | | | | | | | 2016 | 33 | | |
| Tools | | | | | | | | | | | |
| | | | | | | | | | | | |
| Constraints | | | | | | | | | | | |
| Reasons | | | | | | | | | | | |
| 🛅 Data Import/Export | | | | | | | | | • | | |
| 🛅 Utilities | | | | | | | | • | | | |

Then define the Resource Features. A feature in the resource context is a kind of capability a specific resource has. A resource may support multiple features. A feature is used by the resource scheduling logic to find the appropriate resource for a manufacturing operation.

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| Caracteristic Administration | Resource Fea | atures | | | | _ 🗆 × |
|------------------------------|--------------|----------------------|-----------|--------------|----------------------------|----------|
| Choose Company | Code | Name | | | Resource Type | |
| Exchange Rates and Indexes | aSS | Assembly | | | Work-Center | • |
| System Initialization | aSSU | Assembly Unlimited | | | Work-Center | * |
| | cRF | Constraint | | | Constraint | • |
| 🗁 Setup | cUT | Cutting | | | Work-Center | * |
| 🖻 General | dRY | Drying | | | Work-Center | • |
| _ | eRF | Employee Resource | Feature | | Employee | |
| Financials | pNT | Painting | | | Work-Center | • |
| Copportunities | PNTDRY | Painting and Drying | | | Work-Center | |
| | AUP | Quality Checking | | | Work-Center | |
| Purchasing | TKP | 1 ool Resource Featu | re | | 1001 Week Centre | |
| Business Partners | WLD | weiding | | | Work-Center Work-Center | |
| Banking | | | | | | |
| 🛅 Inventory | | | | | | |
| 🛅 Resources | | | | | | |
| Service | | | | | | |
| Production | | | | | | |
| Shift Day Types | | | | | | |
| Shift Plans | | | , | | | |
| Resource Features | ОК | Cancel | Resources | Cost Amounts | | |

Then define Work Centers. A work center is an individual production area or sub-process of an overall manufacturing process. It is a section of a production facility where all tasks associated with a particular process (such as assembling, painting, welding) are performed. A work center may represent a single machine, a group of machines, a single person, a group of persons.

The job scheduler will only take into account '*Active*' work centers. The assigned shift plan defines the working schedule of the work center.

Work centers must support at least one feature. Features can be switched off individually with the '*Is Active*' checkbox. With the '*Job Time Scale*' setting the efficiency of the work center regarding the feature can be set.

| E Administration | We | ork Center | | | | | | | | |
|----------------------------|-----|---------------|--------------|--------------|--------------|------------------|----------------|---------------------|-------|---|
| Choose Company | Cos | de | wPD | _ | | ShiftPlan | | TSP | | 8 |
| Exchange Rates and Indexes | Nar | ne | 5X Pa | inter and Dr | ryer Machine | Profit Ce | nter | | | |
| 📄 System Initialization | Act | ive imited | | | | Bin Loca | ion 📫 01- | SYSTEM-BIN-LOCATION | | _ |
| 🗁 Setup | | Resource | Features | (| Cost Amounts | | | | | |
| 🛅 General | | Feature | Feature Nam | e | Is Active | Setup Time Scale | Job Time Scale | Teardown Time Scale | | |
| Financials | | 🔿 dRY | Drying | | ~ | 1.00 | 1.000 | | 1.000 | - |
| | | pNT NTDDV | Painting | De las | ✓ | 1.00 | 1.000 | | 1.000 | |
| | | | Painting and | Drying | • | 1.00 | 1.000 | | 1.000 | |
| Purchasing | | | | | | | | | | |
| Business Partners | | | | | | | | | | |
| 🛅 Banking | | | | | | | | | | |
| Inventory | | | | | | | | | | - |
| Resources | | | | | | | | | | |
| Service | | | | | | | | | | |
| Production | | | | | | | | | | |
| Shift Day Types | | | | | | | | | | |
| Shift Plans | | | | | | | | | | |
| Resource Features | | | | | | | | | | |
| Work Centers | | OK | Cancel | A | locations | | | | | |

When using the multi-dimensional allocation strategy, you can define Employees, Tools and Constraints too.

| E Administration | Employee | 9 | | | | | | | _ | |
|----------------------------|-----------|--------------------|-----------|-----------|-----------------|--------------------|---------------|--------|---------------------|-----|
| Choose Company | Code | 1 | | | Shi | ftPlan | | rEGSP | | a |
| Exchange Bates and Indexes | Name | Doe, Joh | ın | | Pro | fit Cente | r – | | | ē |
| | Active | \checkmark | | | Bin | Location | n 🔿 | 01-SYS | TEM-BIN-LOCATION | |
| System Initialization | | | | | Emp | ployee II | D 🔿 | 1 | Doe, John | (3) |
| 🗁 Setup | Feature | Feature Name | | Is Active | Setup Time S | cale | Job Time Sca | le | Teardown Time Scale | |
| 🛅 General | eRF | Employee Resource | Feature | ✓ | | 1.000 | | 1.000 | 1.0 | 00 |
| Financials | Tool | | | | | | | | _ | |
| Opportunities | Code | tMH | | | Shi | ftPlan | ⇒ | rEGSP | | 3 |
| Purchasing | Name | Machine | | | Pro | fit Cente | r | | | |
| | Active | ✓ | | | Bin | Location antity | ı <u></u> ⇒ | 01-W2- | -W2-52 | |
| Business Partners | Eastura | Feature Name | Te | Active C | tun Tima Caala | 1 | ah Tima Caala | т. | aardawa Tima Scala | |
| 🛅 Banking | +PE | Tool Resource Feat | 13 | Active Se | etup nine scale | 0.000 | o Time Scale | 000 | eardown nine Scale | 00 |
| Tinventory | | Toor Resource Feat | | | | 0.000 | | .000 | | |
| Resources | Constrain | t | | | | | | | _ | |
| F Service | Code | cCO | | | Shif | ftPlan | ⇒ | rEGSP | | 3 |
| | Name | Constrair | nt | | Pro | fit Cente | r | | | |
| Production | Active | V | | | Bin | Location | | 1.000 | TEM-BIN-LOCATION | _ |
| Shift Day Types | Feature | Feature Name | Is Active | Setup Tir | ne Scale | Job Tir | ne Scale | Tear | down Time Scale | |
| Shift Plans | ⇒ cRF | Constraint | ~ | | 1.000 | | 1.000 |) | 1.0 | 00 |
| Resource Features | | | | | | | | | | |
| Work Centers | | | | | | | | | | |
| Employees | | | | | | | | | | - |
| Tools | | | | | | | | | | |
| Constraints | | | | | | | | | | _ |
| Reasons | | | | | | | | | | |
| 🛅 Data Import/Export | | | | | | | | | | |
| 🛅 Utilities | ОК | Cancel | | Allocatio | ons | | | | | |

Resources can be linked to the BoM/production order with operations. Operations are special items that represent manufacturing processes.

First create a Manufacturing Operation. When a manufacturing operation is created, an 'Operation' item is automatically added. The parameters of the operation can be set on the Item Master Data and the Manufacturing Operations form. The operation will be more meaningful in the context of a Bill of Material (BoM) or Production Order. All the parameters (except Is Outsourceable) for an operation can be redefined in a BoM or Production Order.

An operation has a number of parameters, the most important of which is the '*Job Time*'. The '*Job Time*' defines the resource capacity the operation requires. The setup, job and teardown times consume resource capacity while the before, safety and after times do not consume capacity but are taken into account when calculating the beginning of the jobs in the sequence of operations. The job time for some operation cannot be defined for a single unit; the '*Time Base*' is the number of the units of the operation the job time refers to.

The second most important parameter of an operation is the Work Center Feature. For each operation a Work Center Feature must be selected. This parameter is used extensively by the job scheduler; when the scheduler tries to find work center capacities for an operation, it will search for work centers that have the selected feature for the operation. It is possible to define a preferred work center. When the *'Is Mandatory Work Center'* checkbox is checked, the job scheduling logic will always allocate the operation on the preferred work center. When using the multi-dimensional allocation, supplementary resources can be defined for the operation on the grid.

If an operation is a parallel operation, it means that it can be performed by multiple work centers at the same time if there are enough resource capacities available. Operation break types define whether more than one allocation for an operation is allowed or not. As mentioned earlier operations are items from the perspective of SAP Business One, and some of their parameters can be defined in the item Master Data form. An operation item is never an inventory item. If the operation is outsourceable the item is set as 'Purchased' item.

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Operations are used extensively in production Bill-of-Materials. The standard SAP Business One BoMs are extended by Produmex Manufacturing add-on with operation items.

The role of an item can be indicated with row types. A row in a BoM may be of type:

- Material (Purchased and own-manufactured items are differentiated with row icons)
- Operation
- By-Product (A material with negative quantity)
- Unfinished Product (For Outsourcing.)
- Unfinished Material (For Outsourcing.)
- Phantom (Virtual item in SAP Business One.)
- Cost (Any non-inventory item can be defined as 'Cost')

The sequence of materials and operations are important: materials required for an operation should come above (from top down) the operation.

Milestones connect the operations with the belonging materials. The issue method of an operation should always be 'Backflush'. Items with 'Manual' issue type can be set with the following Milestones:

- *Depends on Begin*: The item will be issued when a Start Job is reported for the subsequent operation.
- *Depends on Every*: The item will be issued/received at every PDC booking for the subsequent operation where a quantity is booked.
- *Depends on End*: The item will be issued/received at every complete job booking for the subsequent operation.

We recommend to only use the 'Depends on End' milestone type if the base quantity of the material is 1 and only 'Completed' job bookings are used.

The quantity of an operation is the same as the job time. The initial parameters of an operation are copied from the manufacturing operation, and these parameters may be customized for the BoM. The operation details form can be opened by clicking the row image icon.

| Bill of Materials (Resource List) | | | | All Categories |
|---|--------------------|---------------------------------------|---|---------------------------------|
| Product No. | | X Quanti | ity 1 Warehouse 📫 01 💌 | BxID |
| Product Description Red Bike | | | Price List Price List 01 | Calculation Base Quantity |
| BOM Type Production | * | | Distr. Bule | Is Auto Rol No |
| Broduction Std Cost | \$ 0.00 | | Project | Milestone Type Depends On Every |
| Planned Average Broduction Size | 1.00 | | | Operation Granularity 1 |
| | 1.00 | | | Recipe Version 0 |
| | | land the state has a second | | Rejected Warehouse 01 |
| # Row Type R., Type No. Description | n Quantity UoM N 1 | Warehouse Issue Method Milestone Type | Production Std Total Productio Price List Z | Timestamp |
| 1 Material ▼ 🏭 Item ▼ 🔿 mM1001 Painted B | ke Fr 1 pcs 🖷 | ⇒ 01 Manual ▼ Depends On Begin ▼ | \$ 0.00 \$ 0.00 Selling Price * 🔶 | |
| 2 Material 🕈 🌉 Item 🕈 🌩 m3 Chain | 1 pcs | ⇒ 01 Manual ▼ Depends On Begin ▼ | \$ 0.00 \$ 0.00 Selling Price ♥ | |
| 3 Material ▼ 🛒 Item ▼ 🔿 m4 Wheel | 2 pcs = | ⇒ 01 Manual ▼ Depends On Begin ▼ | \$ 0.00 \$ 0.00 Selling Price * | |
| 4 Operation ▼ 🐝 Item ▼ 🔿 oPAS Bike Asse | mbly 180 min | -> 01 Backflush Milestone | \$ 0.00 \$ 0.00 Selling Price▼ | |
| 5 Cost ♥ 5 Item ♥ ⇒ cOST1 Project M | anage 1 | O1 Backflush | \$ 0.00 \$ 0.00 Selling Price ♥ | |
| 6 Unfinished Prc ▼ 🚆 Item ▼ 👄 uP1001-0 Red Bike | Basic -1 pcs | O1 Backflush * Depends On End * | \$ 0.00 \$ 0.00 Selling Price * | |
| 7 Unfinished Mar♥ ▲ Item ♥ ⇒ uP1001-0 Red Bike | Basic 1 pcs | ⇒ 01 Manual ▼ Depends On Begin ▼ | \$ 0.00 \$ 0.00 Selling Price ♥ | |
| 8 Operation V 🍓 Item V 🗭 oPQA Quality A | isurai 3 min 🔍 | ⇒ 01 Backflush ▼ Milestone ▼ | \$ 0.00 \$ 0.00 Selling Price ▼ | |
| 9 Material V K Item V -> m5 Bell | 1 pcs | ⇒ 01 Manual ▼ Depends On Begin ▼ | \$ 0.00 \$ 0.00 Selling Price ♥ | |
| 10 Material Time Tep m6 Screw 8m | m (N 1 pair = | ⇒ 01 Manual ▼ Depends On Begin ▼ | \$ 0.00 \$ 0.00 Selling Price ▼ | |
| 11 Operation 🕈 🍓 Item 🕈 🌼 oPBI 🛛 Bell Instal | ation 5 min 4 | O1 Backflush Milestone | \$ 0.00 \$ 0.00 Selling Price* | |
| 12 Cost ♥ S Item ♥ ⇒ cOST2 Energy | 1 | O1 Backflush | \$ 0.00 \$ 0.00 Selling Price ♥ | |
| 13 • Item • () | | • • | Price List 01 V | |
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| | | | | |
| 4 | | | | |
| OK | | | Product Price \$ 482.01 | |

To calculate the estimated price of a product based on the Bill of Materials, configure the Cost Calculation settings.

2.3. Install initial data

In most cases when SAP Business One is installed for a company, the company has already had some computerized information system. Therefore, typically the first job for a SAP Business One installation project is to migrate or import the startup data for the company database of SAP Business One. The tools that may help in this job are Test Script Executor and Test Script Creator. Download the Test Script Executor and the Test Script Creator from: TxTestScriptCreator.zip

For more information about how to use the Test Script executor for installing initial data please see: Test Script Executor

3. Everyday Work - Business Process



3.1. Receiving Sales Orders and Sales Quotations

3.1.1. Receiving Sales Orders

The requirements for the manufacturing process in most businesses are driven by sales orders. The Sales Order form is extended by Produmex Manufacturing with a new field 'MRP Date'. The MRP Date calculated by the planning logic of Produmex Manufacturing is the earliest possible date to

accomplish/fulfill the sales order.

Please note: Only the Bill of Materials of the product is considered during the MRP Date calculation. The Bill of Materials of lower level assembly materials are not considered during the calculation.

| ale | s Order | | | | | | | | | | _ | |
|---------------|---------------|----------|--------------|----------|-------------|-----------|---------------|-----------------|----------|----------|-----------------|--------------|
| usto | mer | 📫 БВ | с | | | | | No. Prim | ary | 515 | | |
| ame | | Big | Bike Mart | | | | | Status | | Open | 1 | |
| onta | ct Person | | | | • 🗐 | | | Posting Date | | 02/02 | /17 | |
| usto | mer Ref. No. | | | | | | | Delivery Date | | 02/08 | /17 | |
| ocal | Currency | • | | | | | | Document Da | te | 02/02 | /17 | |
| [| Conter | nts | L | ogistics | Ĭ | Accou | unting | Attachmer | its | | | |
| Iten | n/Service Typ | e Ite | m | | | | | Summary Ty | /pe | No S | ummary | - |
| # | Item No. | Quantity | Unit Price | Disc | Total (LC) | Del. Date | Delivery Time | Ready For Deliv | Ready Fo | r De | Manual Planning | 7 |
| 1 | ⇒ p1001-1 | 10 | \$ 482.01 | 0.000 | \$ 4,820.10 | 02/08/17 | 3:30PM | 02/07/17 | 10:00AM | | No 🔻 | - |
| 2 | ⇒ mM1001 | 5 | \$ 300.00 | 0.000 | \$ 1,500.00 | 02/08/17 | 3:30PM | 02/07/17 | 12:15PM | | Yes 💌 | |
| 3 | | | | 0.000 | | 02/08/17 | | | | | No 🔻 | |
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| ales I wne | Employee | -N | o Sales Empl | oyee- | • | | | Total Before [|)iscount | | \$ 6,: | 320.1 |
| | | | | | | | | Bounding | 70 | | | s 0.0 |
| | | | | | | | | Tax | | _ | | <i>y</i> 010 |
| | | | | | | | | Total | | <u> </u> | s 6. | 320.1 |
| emar | ks | | | | | | | MRP Date | | | | (|
| Up | date | Cancel | | | | | | | Copy Fro | om | Сору То | |

Produmex Manufacturing supports just-in-time manufacturing; a new 'Delivery Time' column is added to the items matrix, which is the time of date of the 'Delivery Date' (a standard SAP Business One field). Since Production Orders extended by Produmex Manufacturing support 'Due Time', the recommendations created by MRP support 'Due Time' as well.

In a number of cases the 'Delivery Date' and 'Delivery Time' is the time when the customer wants the products on her premises. In such a case if the shipping time is significant, the manufacturing should accomplish the production before shipping. This is where the 'Ready for Delivery' and 'Ready for Delivery Time' fields are important: if they are defined, the MRP logic uses them as the expected due date and time for the Production (or Purchase) Order Recommendations.

In some situations some of the Sales Order lines should be ignored by the MRP. If the '*Manual Planning*' flag is set to 'Yes', the MRP ignores this and the fulfillment of the sales order line should be managed manually. This setting allows the combined running of the MRP and the MTO.

3.1.2. Receiving Sales Quotations

The earliest fulfillment date can also be calculated for Sales Quotations. The form is extended by Produmex Manufacturing with a new 'MRP Date' field. Click on the button next to the MRP Date field. Starting from the current date, the planning logic of Produmex Mnaufacturing will calculate the earliest possible date to fulfill the sales quotation.

Please note: Only the Bill of Materials of the product is considered during the MRP Date calculation. The Bill of Materials of lower level assembly materials are not considered during the calculation.

If the 'Advanced MTO Recommendation' option is enabled on the MTO tab of Produmex Manufacturing settings, a 'Sales Quotation Simulation Parameters' form will open.

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On this form a separate MTO scenario can be created for the sales quotation. It is possible to adjust the scenario name and select additional MRP scenarios to include in the allocation simulation. The type of the scenarios that can be included is defined by the '*Sales Quotation Simulation Type filter*' setting on the MTO tab of Produmex Manufacturing settings.

Click on the 'Calculate' button to calculate the earliest MRP Begin Date/Time and MRP End Date/Time for the sales quotation lines. The 'MRP Mark' column determines which lines are taken into account in the simulation:

- If the 'MRP Mark' is set to 'No' for each line, every sales quotation line will be taken into account.
- If there is at least one line with enabled 'MRP Mark', only lines where the 'MRP Mark' is set to 'Yes' will be taken into account.

These fields will be populated with the begin/due date/time of the order recommendation of the item created by the MTO.

To also see the simulation results on the Job Scheduling Control Panel, click on the 'Show' button.

3.2. Detect Requirements

3.2.1. Advanced MRP

Material Resource Planning (MRP) is the tool in SAP Business One to find the purchasing and production requirements driven by sales orders, advance/reserve invoices, forecasts and inventory level requirements.

In SAP Business One MRP can be run with a number of parameters; the parameters and the purchasing and production recommendations are saved in scenarios. Produmex Manufacturing simply extends the scenario concept of SAP Business One.

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When the Run button is pressed on the MRP Wizard screen, the advanced MRP logic of Produmex

Manufacturing is executed suppressing the built-in simple MRP logic of SAP Business One. The advanced MRP logic of Produmex Manufacturing uses exactly the same parameters of a scenario as SAP Business One, but the algorithm is much more complex because it takes the available resource capacities into account.

The results of the advanced MRP are displayed in an overview matrix. When the buttons are clicked a form is shown that explains the driving factors behind that recommendation.

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If there are requirements that cannot be fulfilled on time, a list of error is displayed after MRP has completed running. In many cases the reason of the error is that the MRP cannot find available capacity for the operation of a production order recommendation. Click on the red x to see the detailed explanation.

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The problematic figures are displayed in red on the overview matrix. The pegging information window shows the production or purchase order recommendation.

3.2.2. Manage MRP scheduling on a graphic board

To see the simulated resource allocations for the production orders recommended by the MRP, open the Job Scheduling Control Panel. Click on the 'Query' button. Check 'MRP recommendations' as a Data Source and select the MRP scenario from the dropdown list.

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3.2.3. Make To Order

Produmex Manufacturing also supports procurement planning strictly based on production orders and incoming sales orders. With Make To Order planning a separate MRP scenario can be created for the triggering production/sales order. Production and purchase orders created from MTO recommendations will be linked to the top order.

In order to take into account an item during the MTO planning, set the 'MTO Planning' UDF to 'Yes' on the Item Master Data.

Initiate the MTO from the right click menu of the top order.

| Sales | Orde | er | | | | | | | _ | _ | × | ▲ ▼ ▶ General | | * 2 | < |
|--------------------------|---------------------|---|---------------------------|----|----------------|--------------------------------|-------------|-----------------------|-------------------|----------|-----|---|----|-----|---|
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| Local C | ner Ket. Durrenc | . NO. V T | | | De | slivery Date | te | 02/08/ | 1/ | | - | Inv.Trans.Undone | No | | |
| Item | | <u>C</u> ancel Cl <u>o</u> se <u>D</u> uplicat <u>R</u> ow Det | te tails | | Acco | unting | /pe | Attac | chments ummary | 1 | - | | | | |
| # | | New Act | tivity | h | Disc | Tax C | Total (LC) | | Del. Date | 7 | | | | | |
| 1 | 8 | P <u>a</u> ymen | t Means | 01 | 0.000 | | \$ 4 | ,820.10 | 02/08/17 | | • | | | | |
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| Sales E | | Related. | Activities | L | То | tal Before (| Discount | | \$ | 4,820. | .10 | | | | |
| Owner | | Related | Down Payment Transactions | L | Dis | scount | % | | | | | | | | |
| | | Related | Opportunities | L | Ta |) Ko <u>u</u> nding x | | | | | - | | | | |
| | | Relation | iship Map <u>.</u> | L | То | tal | | | ş | 4,820. | .10 | | | | |
| Remark | | MTO Pla | anning | | MF | RP Date | | | | | | | | | |
| 0 | к | Cancel | | | | | Copy Fro | om | Сору То | , | 4 | | | | |

11/23

Quick Start Tutorial

On the opening 'Top Order Picker' form select the top order line. It is possible to combine more than one orders in one MTO scenario. Click on the 'Load Top Orders' button to load every order that can be included in the MTO scenario. Select the orders with the '*Selected*' checkbox then click on the 'Add' button to add the new MTO scenario.

3.2.4. Combine MRP and MTO

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Manufacturing companies that produce complex and customizable products might want to run MRP and MTO simultaneously. Produmex Manufacturing supports the combined use of MRP and MTO.

To plan the procurement of an element with MTO only, enable the 'Skip MTO from Normal MRP' option on the MTO tab of Produmex Manufacturing settings]]. Every item with the 'MTO planning' option set to 'Yes' will be excluded from the MRP run.

To exclude certain sales order lines from the MRP run, set the 'Manual Planning' field of the line to 'Yes' on the sales order.

3.3. Creating Production and Purchase Orders from Recommendations

Order recommendations created by the Produmex Advanced MRP and MTO are saved into the same database as used by the SAP Business One's original simple MRP logic. This way the standard Order Recommendation form extended by the Produmex Manufacturing add-on is used to review the recommendations for a scenario. From this form the user may create both production orders and purchase orders.

| Ord | der Recom | mendation | | | _ | _ | _ | - | | | | _ | | × |
|------|--------------|------------------|-------------|--------------------|----------|-----------|------|------|-----|--------------|--------|---------------|---|---|
| Plar | ning Horizon | 02/07/17 - 02/27 | /17 | Calculated At | 02/07/ | 17 3:02PM | | | | | | | | |
| Find | l Item No. | | | | | | | | | | | | | |
| | Create | Order Type | Item Number | Item Description | Quantity | UoM Code | UoM | MRP | MRP | MRP Order Mu | MRP | MRP Lead Time | 7 | |
| | | Production Order | ⇒ p1001-1 | Red Bike | 10 | Manual | pcs | Make | | 10.000 | 5.000 | | | |
| | | Production Order | ⇒ p1001-1 | Red Bike | 10 | Manual | pcs | Make | | 10.000 | 5.000 | | | |
| | | Production Order | 中 mM1001 | Painted Bike Frame | 10 | Manual | pcs | Make | | 1.000 | 5.000 | | | |
| | | Production Order | mM1001 🔿 | Painted Bike Frame | 10 | Manual | pcs | Make | | 1.000 | 5.000 | | | |
| | | Production Order | 📫 mM1101 | Raw Bike Framewo | 10 | Manual | pcs | Make | | 1.000 | 5.000 | | | |
| | | Production Order | 📫 mM1101 | Raw Bike Framewo | 10 | Manual | pcs | Make | | 1.000 | 5.000 | | | |
| | | Purchase Request | 📫 m3 | Chain | 20 | Manual | pcs | Buy | | 5.000 | 5.000 | 2 | | |
| | | Purchase Request | 📫 m4 | Wheel | 40 | Manual | pcs | Buy | | 2.000 | 10.000 | 2 | | |
| | | Purchase Request | 📫 m5 | Bell | 15 | Manual | pcs | Buy | | 5.000 | 5.000 | 3 | | |
| 0 | | Purchase Request | 📫 m5 | Bell | 5 | Manual | pcs | Buy | | 5.000 | 5.000 | 3 | | |
| 1 | | Purchase Request | ' 📫 m6 | Screw 8mm (Nut + | 20 | Manual | pair | Buy | | 10.000 | 10.000 | 3 | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | - | |
| | • | | | | | | | | | | | • | | |
| | | | | | | | | | | | | | | l |
| | OK | Cancel | | | | | | | | | | | | |

After the production orders have been created from the recommendations, they are created in 'Planned' status initially. The production order can be modified in any manner.

For planned production orders only temporary allocations are made. Permanent allocations will only be created after the production order has been released.

As mentioned earlier, Produmex Manufacturing extended the production order 'Due Date' with a time component. With the '*Due Time*' UDF the production planning is detailed at the time-of-day level.

3.4. Detect missing components

At this point the components needed for the production may be missing. The Missing Parts Report shows the components that are not on stock for the planned or released manufacturing, and this way they need special attention.

To see the material flow of a given item, open the Material Account Grid/Diagram from the right-click menu of the Item Master Data.

| Item I | Master Data | | | | | | 4 - | All Catenories | | * × | | | | | |
|--------------------|--------------------------------------|--------|----------------|---------------------------------------|------------------|--------------|-------------|------------------|-----------|---------|-----------|---------|---------|---------|--------|
| Item No | Manual m3 | | | v 1 | nventory Item | | Is Unfinish | ed Product | No | | | | | | |
| Descript | tion Chain | | | | ales Item | | Item Role | Deadlockies (163 | Item | • | | | | | |
| Foreign Item Tv | name Items | * | | | jurchase Item | | Lond Time | Tures | Working | Daves 🔻 | | | | | |
| Item Gr | oup 🗘 Items | * | | | | | Lead Time | Type | (Horking | , ouys | | | | | |
| UoM Gr | oup Manual | ▼ 🗐 | Material Accou | nt Diagrar | n | | | | | | | | | | 1 × |
| Price Lis | t Labor-Free Price | | Itom Code | | -> [m] | | | aa | Erom Data | | 02/07/17 | | | | |
| | | | Graph Scale | | 1x | | | | To Date | | 05/03/17 | | | | 5 |
| | Remove | y Data | Graph Filter | | Only Total | | | | | | 100100100 | | | | |
| | <u>D</u> uplicate | | 2/7/17 | 2/8/17 | 2/9/17 | 2/10/17 | 2/11/17 | 2/12/17 | 2/13/17 | 2/14/17 | 2/15/17 | 2/16/17 | 2/17/17 | 2/18/17 | 7 |
| - | New Activity | | | - | | | | | | | | 1 | | 1 | \sim |
| | Business Partner Catalog Numbers | | | 1 | | | | | | | | | | | •• |
| | Dilliof Materials | | | T | | | | | | | | | | | |
| | Bill of Materials | | | i i i i i i i i i i i i i i i i i i i | | | | | | | | | | | |
| | <u>A</u> lternative Items | | Total | | 2/7/2017 11:59 P | M | | | | | | | | | |
| | <u>R</u> elated Activities | - | | | 20 (Whs: 01) | C: O Line: 1 | | | | | | | | | |
| | Inventory Posting List | | | | | | | | | | | | | | |
| | Inventory Audit Report | P | | • · | | | <u> </u> | <u> </u> | | | | | | | |
| | Bin Location Content List | | - | | 1 | 1 | | 1 | 1 | 1 | | | | | - |
| | Items List | | | • | | | | | | | | | | | |
| | - Inventory Status | | | | | | | | | | | | | | |
| | Croate Burchase Quetation | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | Purchase Quotation Comparison Repo | ۰I | | | | | | | | | | | | | |
| | Purchase Reguest Report | | | | | | | | | | | | | | |
| | Available_to-Promise | | | | | | | | | | | | | | |
| | Relationship <u>M</u> ap | | | | | | | | | | | | | | |
| | Calculate Bills of Materials | | | | | | | | | | | | | | |
| | List of Calculated Bill of Materials | | | | | | | | | | | | | | |
| Q . | Material Account Grid | | | | | | | | | | | | | | |
| 6 | Material Account Diagram | | | | | | | | | | | | | | |
| all the | Pagina Editor | | | | | | | | | | | | | | |
| IЧ | Recipe Editor | | | | | | | | | | | | | | |
| O | K Cancel | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | \sim |
| | | | | | | | | | | | | | | | |
| | | | < | | | | | | | | | | | > | |
| | | | Refresh | Close | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

When the mouse cursor is moved over the circled arrow icons, a bubble shows details about that transaction; if the icon is clicked the appropriate production, purchase, etc. order form is opened. The up arrow shows incoming, the down arrow outgoing inventory transactions.

When all the purchased components are on stock the production can be started.

3.5. Manage scheduling

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For the operations of production order recommendations and planned production orders, no actual resource capacities have been allocated. In the case of such orders, the resource allocations are only temporarily made as a simulation. Permanent allocations are only created when a production order is released.

On the Job Scheduling Control Panel not just the allocations for recommendations but the simulated allocations for planned production orders and the temporarily allocations for released orders can be monitored. To reschedule an operation, simply drag it and replace it on a free slot. To reschedule every allocation for a resource, use the semi-automatic rescheduling functions.

| PDC | Job Scheduling Contro | ol Panel | | | |
|--|-----------------------------|------------------------|------------|------------------|------------|
| Update Parent Item Prices Globally | | | | | <u> </u> |
| Production Cost Recalculation Wizard | 3 3 4 | • 💽 🖤 🥴 🕵 | | 🛗 📫 MTO Scenario | |
| Bill of Materials - Component Management | | | | | |
| Production Std Cost Management | Daily | 02/08 (We) | 02/09 (Th) | 02/10 (Fr) | 02/13 (Mo) |
| Production Reports | ⇒ wAS | | 566 566 | 566 | |
| Bill of Materials Report | Assembler Team | Expand All | | | |
| Open Items List | ⇔ wASU Unlim. Assembler | Collapse All | | | |
| Job Requirements | | | | | |
| Material Requirements | S John Doe | Align allocations | | | |
| Missing Parts for Manufacturing | C ↔ wPD SX Painter and D | Reallocate allocations | | | |
| Resource Allocations | 3 | | | | |
| Work Center Capacity Usage | Quality Manager | | | 556 556 | |
| Operation Delay Prognosis | ⇒ wWM2 | | | | |
| Outsourced Manufacturing Overview | BXC 22 Welding 1 | | | | |
| Outsourced Manufacturing Overview Chart | 4 | | | | <u> </u> |
| Job Scheduling Control Panel | Ok | Cancel | | | |
| Resource Usage Chart | | | | | - |
| Resource Time Diagram | | | | | Þ |

The Job Scheduling Control Panel has special functions for MTO scenarios. If a scenario is highlighted, the sequence of the operations is indicated with arrows. When the system detects discrepancy, an MTO message is shown and the discrepancy is marked with a red arrow.

| Jo | b Scheduling Co | ntrol Panel | | | | | | | | | _ | . 🗆 🗙 |
|-----------|----------------------------|-------------|----------------------|--|--------------------|----------------------|--------------|-------------------------------|---------------------------|--------------------|-------|-------|
| | 227 | 2 - 📃 🗊 | ی 🔅 🕲 | 🔒 💶 🔊 | 2 | | | | 👫 📫 MTO Scena | ario MTO_201701231 | 00231 | - |
| | | | 01/23/17 (Mo) | | | 01/24/1 | 7 (Tu) | | | 01/25/17 (We) | | |
| | Per shift | 1 | 2 | 3 | 1 | 2 | | 3 | 1 | 2 | 3 | |
| | ⇔ wAS Assembler Team | | 559 | | | 556 | 556 | | | 556 | 556 | ^ |
| | ⇒ wASU Unlim. Assembler | | | | | | | | | | | |
| | ⇒ wJD John Doe | | 55 | s //////////////////////////////////// | / | 555 | iS! 558 | | | 558 | | |
| Vork Cent | ⇒ wPD 5X Painter and D | | 554 | | | | | | | | | |
| ers | ⇔ wQAM Quality Manager | | | | | 4 | | | | Empty extratime | | |
| | wWM2 BXC 22 Welding I | | | | | | 555 | | | 01/25/17 08:00 AM | | |
| | | | | | | | | | | | | ~ |
| < | | | | | | | | | | | | > |
| | MTO Scenario | Work Center | Time | Message | | | | | | | | |
| - | MTO_20170123100231 | wPD | 1/23/2017 1:19:00 PM | In MTO Scenario MTO | 20170123100231 the | begin date of Produc | tion Order # | 554 is earlier than its child | production order's end da | te (#555) | | |
| | | | | | | | | | | | | |
| 1 | MTO Messages | | | | | | | | | | | |
| | Ok | Cancel | | | | | | | | | | |
| | | | | | | | | | | | | |

To review the operation sequence of only one production order, open the Operation sequence diagram from the right-click menu of the order. On the diagram resource allocation are displayed in separate lines with the completion percentage.

| Production Order | | | | | | | | | _ 🗆 | ≍ | All Catego | ries | | • | × ^ |
|--------------------------------------|------------------------------------|--|--|----------------|----------|------------------|------------|------------|----------|-------------------------------|--------------|----------|-------------|-------------|------|
| Type Standard | | | | | | | No. | Primary | 566 | Allocatio | n Strateny | | Forwarr | d From Earl | es* |
| Status Released | | | | | | | Order Date | | 02/02/17 | Begin Da | te | | 02/08/1 | 7 | |
| Product No. DI001-1 | | | | | | | Start Date | | 02/15/17 | BxID | | | 0003070 | 6 | |
| Product Description Red Rike | | | | | | | Due Date | | 02/28/17 | Earliest R | enin Date | | 02/08/11 | , | |
| Planned Quantity 10 LloM | Name pcs | | | | | | User | | manager | Outsource | red Quantity | On Order | | | |
| Warehouse | | | | | | | Origin | | MRP | Base Out | antity | | 1 | | |
| | | | | | | | Sales Orde | vr. | | Begin Tir | ne | | 10-3441 | 4 | |
| Cancel | | | | | | | Curtomor | | | Due Tim | | | 12-00.01 | | |
| | | Operations See | ionco Diogram | | | | | | | | | | | | |
| Duplicate | | Operations seq | lence Diagram | | | | | | | | | | | | |
| New Activity | | Pr. Ord. No | -> 566 | | 1001-1 | * 02/28/17 Prima | iry | | | | | | | | |
| Related Activities | | Item No | 📫 p10 | 01-1 | Red Bi | ike | | | | | | | | | |
| Burnet Consulation | Description Base | Begin Date | 02/0 | 8/17 | | 10:34 | | | | | | | | | |
| 1 Report Completion | Painted Bike Framew | Due Date | 02/2 | 8/17 | | 00:00 | | | | | | | | | |
| 2 Issue Components | Chain | | | | | ww | | | | | Ma | Here D | Ward | Marth | Vert |
| Resource Allocations | Wheel | | · | | | | | | | - | | | · · · · · · | - Charles | |
| 4 5 Material Requirements Report | Bike Assembly 1 Project Management | 1 # Op.Code Begin Date WC.Co End Date | Setup/Job/Teardown Plan.Qty./State | Alloc ID | 02/07/17 | 02/08/17 | 02/09/17 | 02/10/17 | 02/11/17 | 02/12/17 | 02/13/17 | 02 | /14/17 | 02/15/17 | ^ |
| 6 Transfer Request | Red Bike (Basic) | 02/08/17 10:3 | AM | | | | | | | | | | | | |
| 7 Component Transfer | Red Bike (Basic) | 4 0PAS 02/15/17 10:3 | AM | | | | | | | | | 80-16 | | | |
| 8 Relationship Map | Quality Assurance | oPAS 02/08/17 10:3 bGU 02/15/17 10:3 | AM (Outsourced) AM 5.000 | | | 0% | | | | | | | | | |
| Generate Pick List | Bell | dPAS 02/08/17 10:3 | AM 0.000/85.000/0.000 [min] | 0003468 | | 8 | | | | | | | | | |
| View Pick Lists | Screw smm (Nut + E | -PAS 02/08/17 01:0 | PM 0.000/240.000/0.000 [min] | | | _ | | | | | | | | | |
| 12 Load from BoM | Energy | wAS 02/08/17 05:0 | PM 1.267 | 0003488 | | | | | | | | | | | |
| 13 Operations Sequence Diagram | | wAS 02/09/17 12:0 | PM 1.000 | 0003489 | | | <u> </u> | | | | | | | | |
| Job Requirements Report | | ePAS 02/09/17 01:0 wAS 02/09/17 05:0 | 0 PM 0.000/240.000/0.000 [min] 0 PM 1.267 | 0003489 | | | | | | | | | | | |
| Allocation Status | | ePAS 02/10/17 08:0 wAS 02/10/17 12:0 | AM 0.000/240.000/0.000 [min] PM 1.000 | 0003489 | | | | 2 2 | | | | | | | |
| Allocation Report | | ePAS 02/10/17 01:0 wAS 02/10/17 01:2 | PM 0.000/20.526/0.000 [min] PM 0.108 | 0003503 | | | | ļ | | | | | | | |
| Missing Capacity Report | | 8 -201 02/15/17 10:3 | EAM . | | | | | | | | | | | 10% | |
| List of Calculated Production Orders | | 02/15/17 11:1 | F AM | | | | | | | | | | | | |
| Job Scheduling Control Panel | | | AM 0.000/40.000/0.000 [min] AM 10.000 | 0003503 | | | | | | | | | | 1 | |
| Ren Calculate Production Order | | 11 oPBI 02/15/17 11:1 | AM . | | | | | | | | | | | 0% | ~ |
| MTO Planning | | < | | > < | | | | | | | | | | | > |
| | 1 | Close | Print Expan | d/Collapse All | | | | | | | | | | | |
| OK Cancel | | | | a, an apar of | | | | | | | | | | | |
| | | | | | | | | | | | | | - | | |

One of the goals of a manufacturing company is to optimize the usage of resources.

The Resource Usage Chart may be used even with planned or recommended production orders. Keep in mind that resource capacities are allocated for the operations in production orders based on the resource feature settings.

When no work center is selected, the combined usage of all work centers of the company is shown. The available capacities of the resources are determined by the associated shift model.



Produmex Manufacturing also offers a Production Management Cockpit. On this cockpit production orders can be released, closed or rescheduled in groups. To release multiple production orders, select the lines of the production orders then click on the 'Change Selected' button. Select the new status from the dropdown menu. After pressing 'Update' recalculate the production orders.

| Last update: | |
|--------------|--|
| 2021/04/20 | implementation:manufacturing:quickstart https://wiki.produmex.name/doku.php?id=implementation:manufacturing:quickstart |
| 09:31 | |

| B | | | | | | | | | | | | | | | | | |
|----------|--|-------------|------------------------|----------------------------|--------------|--------------------------|-------------|--|------------------|--------|-----------------------------|---------|------------|-------------------|-------------------|----------|-----|
| 00 | Sdies - A/K | Producti | on Mar | agement Coo | kpit | | | | | | | | | | | | - 1 |
| Ä | Purchasing - A/P | Planned | | Cance | led | | Sort by Ite | em Code 🔄 📃 | Date Type | | Due Date | • | Item Gro | pup | | | • |
| 22 | Business Partners | Released | | Closed | | | Sort by Ite | em Descripti | Date From | | | - | Product | From | | | |
| | Banking | Production | Order Froi Order To | m | | | | | Sales Order Fron | | | • | Project (| Code From | | | |
| | Inventory | MTO Scena | rio | | | | | i iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | Sales Order To | | | •) | Project (| Code To | | | |
| -88 | inventory | Errors Only | | | | | | | Start Date | | | | | | | | |
| 1 | Resources | Select | Changed | St. Pr. Ord. No | Pr. Ord. Sta | atus Priori | ty Item No | Item Name | Planned Qua | ntity | Allocation Strategy | Begin D | Date | End Date | Latest Begin Date | Due Date | |
| ۳ | Production | | | ● ⇒ 566 | Released | • | p1001-1 | Red Bike | | 10.000 | Forward From Earliest Date | 02/08/1 | 7 10:34 AM | 02/15/17 01:22 PM | 02/20/17 02:45 PM | 02/28/17 | - |
| | Bill of Materials | × | | 571 | Planned | - | mM1101 | Raw Bike Framework | | 5.000 | Forward From Preferred Date | 02/21/1 | 7 08:00 AM | 02/21/17 09:01 AM | 02/22/17 04:09 PM | 02/23/17 | -1 |
| | Manufacturing Operations | × | | ⇒ 572 | Planned | * | → p1001°1 | Painted Bike Framewo | ork | 5.000 | Forward From Preferred Date | 02/09/1 | 7 08:00 AM | 02/09/17 05:04 PM | 02/10/17 03:04 PM | 02/12/17 | |
| | | | | ● 🔿 574 | Planned | * | 👄 mM1101 | Raw Bike Framework | | 5.000 | Forward From Preferred Date | 02/08/1 | 7 01:00 PM | 02/08/17 01:51 PM | 02/09/17 04:09 PM | 02/10/17 | |
| | Production Order | | | | _ | | | | | | | | | | | | _ |
| | Procurement Confirmation Wizard | | | | | Product | ion Manag | gement Cockpit | | | | | | | | | -1 |
| | Receipt from Production | | | | | Pr. Ord. St | atus | Released | • | | | | | | | | |
| | Inventory Management For Outsourcing | | | | | Allocation : Due Date | strategy | | | | | | | | | | - |
| | Resource Unavailability Management | | | | | Due Time | | | | | | | | | | | |
| | Production Management Cockpit | | | | | | | | | | | | | | | | - |
| | Material Shortage Detection | | | | | | | | | | | | | | | | _ |
| | Issue for Production | | | | | | | | | | | | | | | | - |
| | PDC | | | | | | | | | | | | | | | | - |
| | Update Parent Item Prices Globally | | | | | Update | Car | ncel | | | | | | | | | |
| | Production Cost Recalculation Wizard | | | | | | | | | | | | | | | | - |
| | Bill of Materials - Component Management | | | | | | | | | | | | | | | | |
| | Production Std Cost Management | 4 | | | | | | | | _ | | | | | | | Þ |
| | Production Reports | Loa | ł | Recalculate | Char | nge Selecter | d i | Missing Capacity Report | : C | ose | | | | | | | |
| | Cost Calculation | • | | | | | | 333 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

When a production order has been released, the scheduling logic of the Produmex Manufacturing addon finds resource capacities for the operations and a number of reports are available including the Resource Allocations report.

The allocations for a selected resource, resource feature, product, production order or time period can also be viewed on a grid. Open the Resource Allocations form.

| Bill of Materials - Component Management | Resource A | llocations | | | | | | | | | | X |
|--|---------------------|-----------------------------|------------------------------|---------------|---------------------------------|-------------------------|--------------------|---------------------|------------------|--------------------|--------------|-----|
| Production Std Cost Management | Resource Type | | Work-Center | | • | Date From | | 02/08 | /17 | | | |
| Production Reports | Feature | _ | AC | Accombles Tex | | Date To Dr. Ord. No. | | - | | p1001-1 \$ 07 | Drimony | |
| Bill of Materials Report | Product Code | | | Assembler rea | 8 | Pr. Ord. Line | | - 500 | | p1001-1 - 02/ | Printery | |
| Open Items List | Operation Cod | e | | | | Capacity UoM | | min | | | | * |
| Job Requirements | AllocID 00034888 | Allocation Type Released | Resource Type Work-Center | Resource Code | Resource Name Assembler Team | From Date 02/08/17 | From Time 10:34 | To Date 02/08/17 | To Time 12:00 | Duration 86.000 | Pr.Ord.No | 1 |
| Material Requirements | 00034889 | Released | Work-Center | 📫 wAS | Assembler Team | 02/08/17 | 13:00 | 02/08/17 | 17:00 | 240.000 | ⇒ 566 | |
| Missing Parts for Manufacturing | 00034890 | Released Released | Work-Center | ⇒ wAS | Assembler Team | 02/09/17 | 08:00 | 02/09/17 | 12:00 | 240.000 | ⇒ 566 | - 1 |
| Resource Allocations | 00034892 | Released | Work-Center | ⇒ wAS | Assembler Team | 02/10/17 | 08:00 | 02/10/17 | 12:00 | 240.000 | ⇒ 566 | |
| Work Center Capacity Usage | 00035034 | Released Released | Work-Center | → wAS | Assembler Team | 02/10/17 | 11:14 | 02/10/17 | 13:21 | 40.000 | -> 566 | - |
| Operation Delay Prognosis | 00035037 | Released | Work-Center | 📫 wAS | Assembler Team | 02/15/17 | 13:00 | 02/15/17 | 13:22 | 22.000 | ⇔ 566 | |
| Outsourced Manufacturing Overview | | | | | | | | | | | | |
| Outsourced Manufacturing Overview Chart | | | | | | | | | | | | - 1 |
| Job Scheduling Control Panel | | | | | | | | | | | | - |
| Resource Usage Chart | • | | | | | | | | | | | • |
| Resource Time Diagram | | | _ | | | | | | | | | |
| Cost Calculation | Refresh | Cancel | | | | | | | | | | |

To see the capacity usage of a given work center, open the Work Center Capacity Usage form. On the 'Allocation Rate' field the work center usage percentage for the given work center with the selected parameters is shown.

| Material Shortage Detection | | Work Center | er Capacity Us | age | | | | | | | |
|--|-----|-----------------|------------------|--------|-------------------|-----------|---|----------------|--------------------|------------------|-------|
| Issue for Production | | Work Center | ⇒ (| WAS | Assembler Te | am | Date From Date From Date From Date Provide Date Provid | om | 02/08/17 | | |
| PDC | | Feature | | | | | Date To | | 02/10/17 | | |
| | | Productive | | Yes | | • | Capacit | y UoM | min | | |
| Update Parent Item Prices Globally | | Overtime | | Both | | • | Period | L-A- | Day | | |
| Production Cost Recalculation Wizard | | Posource | Work Contar Name | ch:A | Shift Description | From Data | To Data | Total Capacity | Allocated Canacity | Draductivo Patio | Alle |
| Bill of Materials - Component Management | | Mesource | Assembles Team | mOROT | Marping Quartima | 02/08/17 | 02/08/17 | 170 000 | Allocated Capacity | 0 700 | Allo. |
| Production Std Cost Management | | ⇒ wAS | Assembler Team | mOR | Morning Shift | 02/08/17 | 02/08/17 | 154.000 | 0.000 | 0.750 | |
| | | wAS | Assembler Team | mOR | Morning Shift | 02/08/17 | 02/08/17 | 86.000 | 86.000 | 0.750 | |
| Production Reports | | 📫 wAS | Assembler Team | aNN | AfterNoon Shift | 02/08/17 | 02/08/17 | 240.000 | 240.000 | 0.950 | |
| Bill of Materials Report | | 📫 wAS | Assembler Team | nGHTOT | Night Overtime | 02/08/17 | 02/08/17 | 300.000 | 0.000 | 0.600 | |
| | | 📫 wAS | Assembler Team | mOROT | Morning Overtime | 02/09/17 | 02/09/17 | 120.000 | 0.000 | 0.700 | |
| Open Items List | | 👄 wAS | Assembler Team | mOR | Morning Shift | 02/09/17 | 02/09/17 | 240.000 | 240.000 | 0.750 | |
| Job Requirements | | ⇒ wAS | Assembler Team | aNN | AfterNoon Shift | 02/09/17 | 02/09/17 | 240.000 | 240.000 | 0.950 | |
| Material Requirements | - 8 | ⇒ wAS | Assembler Team | nGHTOT | Night Overtime | 02/09/17 | 02/09/17 | 300.000 | 0.000 | 0.600 | |
| E Materia Requirements | | was | Assembler Team | mOR | Morning Overtime | 02/10/17 | 02/10/17 | 240.000 | 240.000 | 0.700 | |
| Missing Parts for Manufacturing | | wAS | Assembler Team | aNN | AfterNoon Shift | 02/10/17 | 02/10/17 | 21,000 | 21,000 | 0.950 | |
| Resource Allocations | | ⇒ wAS | Assembler Team | aNN | AfterNoon Shift | 02/10/17 | 02/10/17 | 219.000 | 0.000 | 0.950 | |
| 🗎 Work Center Capacity Usage | | 📫 wAS | Assembler Team | nGHTOT | Night Overtime | 02/10/17 | 02/10/17 | 300.000 | 0.000 | 0.600 | |
| Operation Delay Prognosis | | | | | | | | | | | |
| Outsourced Manufacturing Overview | | | | | | | | | | | |
| Outsourced Manufacturing Overview Chart | | | | | | | | | | | |
| Job Scheduling Control Panel | | 4 | | | | | | | | | |
| Resource Usage Chart | | Allocation Rate | 6 | 39.519 | | | | | | | |
| Resource Time Diagram | | | | | | | | | | | |
| T. Cost Calculation | | Refresh | Cancel | | | | | | | | |

3.6. Create outsourcing orders

After the production order has been released, purchase quotations and purchase orders can be created for the outsourced operations on the Production Order Operations Details form.

For more information about the Outsourcing please see: Outsourced Manufacturing

| peration Code peration Name fore Time fety Time tup Time b Time ardown Time ter Time me Base sonned Quantity ipeted Quantity Resource Requirements Is Outsourced Dutcourcion Load Time New Purchase Order New Purchase Quantiton | ©PAS Bike A 0.000 0.000 180.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | o O Outsourc | ing P | nin nin nin nin nin DC Bookin Days | ngs Doci | Operation Operation Is Parallel Is Overlap Max Paralle Overlappir Allocation Min Job Q Message Is Pinned Sta Pinned Sta Pinned Sta Unmentation | Break Time UoM Operation ping Opera I Operation g Quantity Window uantity rt Date rt Time Cost Amoun Quantity g UoM | ation ns / | Allow Minut 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | ed es | | | |
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| New Purchase Order New Purchase Quotation | | | | | | | | | | | | | |
| New Purchase Quotation | | | | | | Items Per (| Dutsourcing | g Unit | 1.000 | | | | |
| New Purchase Quotation | | | | | | In House F | latio | | 0.500 | | | | |
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| Purchase Order 506 | 5 📫 7 | | | 📫 🕹 | Bike Gurus | 2.50 |) | 0.000 02/0 | 08/17 | 00034025 | | Open | |
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3.7. Print production reports

Before starting the production on the shopfloor, print the Requirements Reports for the operations and materials. The Job/Material Requirements Report is meant to be distributed to the workers who do the jobs. These reports are a kind of daily work orders for the workers. The production data collection is done with the help of these reports.

| Update Parent Item Prices Globally | Job Requirements Repo | ort Para | meters | | | | | |
|--|-------------------------------|----------|------------------|--------------|---|---------------------------|--------------|--------|
| Production Cost Recalculation Wizard | Date From | | | | | Date To | | |
| Bill of Materials - Component Management | Workcenter From | i | | | 3 | Work Center To | | |
| | Operation From | <u> </u> | | | | Operation To | | |
| Production Std Cost Management | Product From Pr. Ord. From | 566 | p1001-1 * | 02/3 Primary | - | Product To Pr. Ord. To | | 1 |
| Production Reports | Feature | | | | ē | | | |
| Bill of Materials Report | Inc. Material Requirements | | | | | | | |
| Open Items List | Ok Cancel | Se | elect Report La | iyout | | | | |
| 🗎 Job Requirements | | Re | port | JobReq | | Language | In_English | |
| Material Requirements | | | Report Layout | | | File | Printer Name | |
| Missing Parts for Manufacturing | | 11 | Job Requirements | (base) | | RL_JobRequirements | | |
| Resource Allocations | | | | | | | | |
| Work Center Capacity Usage | | | | | | | | |
| Operation Delay Prognosis | | | | | | | | |
| Outsourced Manufacturing Overview | | | | | | | | |
| Outsourced Manufacturing Overview Chart | | | | | | | | |
| Job Scheduling Control Panel | | | | | | | | |
| Resource Usage Chart | | | | | | | | |
| Resource Time Diagram | | | | | | | | |
| Cost Calculation | | | New | Rename | D | elete Edit Layout Set D | efault Print | Cancel |

Define the parameters of the report. To print the material requirements among the job requirements, check the *'Inc. Material Requirements'* checkbox. After pressing the 'Print' button, the printing is directed to the default printer. To print the report in PDF file, check the *'Preview before Print'* checkbox. The report is built with Crystal Reports and can be customized.



3.8. Production on the shopfloor

3.8.1. Personal Time Management

Produmex Manufacturing can be extended with an employee attendance data collecting solution. At the beginning and end of their shift, employees can login/logout on a terminal. This transaction is

recorded in SAP Business One in real time which allows to monitor arrivals and leaves directly from the office.

| Mobile PDC | 😵 TEST_WMSMF | 12/20/16 10:18 AM |
|--|----------------------------------|-------------------|
| Server: 17.05.31007.18920 Client: 17.05.31007 | Personal Time Management (00:29) | * (j) |
| Employee | • John Doe | |
| History | Login (, 12/20/16 10:17 AM) | |
| Reason | LB (Lunch Break) | F11 F12 |
| | | |
| | | |
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| | | |
| | | |
| | | |
| | FL F2 F3 Esc | |
| Login | Logout Log Main Menu | |
| | | |

On the office module of PTM monthly and ad-hoc attendance reports can be generated.

| ales - A/R | ł | Attendance ⁻ | Time Accoun | t Report | | | | | | | | | | | _ | F |
|----------------------------------|---|-------------------------|----------------|-----------------|---------------|--------------|------------------|------------------|-------|---------|---------|---------|----------|------------|---------------|---|
| urchasing - A/P | 6 | Employee | | | ⇒ 2 | | | Morrison, Fi | red | | | | 0 | | | |
| usiness Partners | | Date From | | | 0 | 1/01/17 | | | | | | | | | | |
| anking | | EmployeeID | Employee Name | Attendance Plan | Total Planned | Total Actual | Total Calculated | Total Difference | Day [| Date | State | Plan In | Plan Out | Plan Break | Plan Duration | |
| | | ⇒ 2 | Morrison, Fred | | 135:00 | 60:16 | 60:16 | -74:44 | Su 0 | 1/01/17 | Weekend | | | | | 4 |
| nventory | | | | | | | | | Mo 0 | 1/02/17 | | | | | | |
| esources | | | | | | | | | TU 0 | 1/03/17 | | | | | | |
| roduction | | | | | | | | | Th 0 | 1/05/17 | | 06:00 | 22:00 | 01:00 | 15:00 | |
| | | | | > nORMSDT | | | | | Fr 0 | 1/06/17 | | 06:00 | 22:00 | 01:00 | 15:00 | |
| ξP | | | | | | | | | Sa 0 | 1/07/17 | Weekend | | | | | |
| vice | | | | | | | | | Su 0 | 1/08/17 | Weekend | | | | | |
| nan Pesources | | | | | | | | | Mo 0 | 1/09/17 | | | | | | |
| lan Resources | | | | | | | | | Tu 0 | 1/10/17 | | | | | | |
| mployee Master Data | | | | - | | | | | We 0 | 1/11/17 | | | | | 15.00 | |
| ttendance Journal Administration | | | | | | | | | Fr 0 | 1/12/17 | | 06:00 | 22:00 | 01:00 | 15:00 | |
| in the st | | | | - | | | | | Sa 0 | 1/14/17 | Weekend | | 22100 | | 13.00 | |
| e Sneet | | | | | | | | | Su 0 | 1/15/17 | Weekend | | | | | |
| man Resources Reports | | | | | | | | | Mo 0 | 1/16/17 | | | | | | |
| endance. Journal Reports | | | | | | | | | Tu 0 | 1/17/17 | | | | | | |
| | | | | | | | | | We 0 | 1/18/17 | | | | | | |
| Attendance Time Account Report | | | | nORMSDT | | | | | Th 0 | 1/19/17 | | 06:00 | 22:00 | 01:00 | 15:00 | |
| Attendance List | | | | > nOKMSD1 | | | | | Fr 0 | 1/20/1/ | Weekend | 06:00 | 22:00 | 01:00 | 15:00 | |
| Attendance Work Log | | | | | | | | | Su 0 | 1/22/17 | Weekend | | | | | |
| | | 4 | | | | | | | | | | | | 1 | | 1 |
| Attendance Journal Error Report | | - () | | | | | | | | | | | | | | |
| ports | | Refresh | Cancel | | | | | | | | | | | | | |

3.8.2. Production Data Collection

Production Data Collection is when the workers report back to the system how their work is progressing.

With the standard PDC application employees first have to start the setup/job then they can report partial/full completion. The duration of the operation is measured in real time and cannot be modified. With the simple job function employees can report the operation duration, setup and job completion in one step.

| Mobile PDC | 😵 TEST_WMSMF (PMX_BUDTOSH2) - John Doe | 12/21/16 02 | X :10 PM |
|--|--|-----------------------------------|--------------------|
| Server: 17.05.31007.18920 Client: 17.05.31007 | Running Jobs (00:30) | * | i |
| Operation | | | F12 |
| 🗸 🍄 Job | 6-1 (oPCU - Cutting) #505 mM1101 (Raw Bike Framework) Open: 1 Planned: 1 Workcenter: wJD | 02:07 PM 12/21/16 Start Job | |
| Job | 5-10 (oPBI - Bell Installation) #504 p1001-1 (Red Bike) Open: 0 Planned: 1 Workcenter: wAS | 01:58 PM 12/21/16 Start Job | |
| | | | |
| | | | |
| | | | ▼ |
| Start | E Stop Partial Admin Logout | Esc | |
| Ē | | | |

According to the milestone settings of the production order lines and the production order, material consumption and product and by-product completion can be reported during the PDC booking. The appropriate material issue or product receipt inventory transactions will be committed as well.

| Mobile PDC | /ISMF (PMX_BUDTOSH2) - John Doe | 12/20/16 02:26 PM |
|--|---------------------------------|---------------------------------|
| Server: 17.05.31007.18920 Client: 17.05.31007 | Materials (00:30) | * ① |
| Production Order | #501 p1001-1 (Red Bike) | |
| Operation | 2-3 (oPAS - Bike Assembly) | |
| Item | | F12 |
| Quantity | Add [®] Update | F10 |
| | | |
| mM1001 | Painted Bike Framework | 30 of 30 pcs A Warehouse: 01 |
| m3 | Chain | 30 of 30 pcs Warehouse: 01 |
| m4 | Wheel | 60 of 60 pcs Warehouse: 01 |
| | | V |
| Done ^{F1} C | ancel Serial / Batch | |
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Unplanned work center unavailability or machine failure can be reported with the Workcenter Journal and Workcenter Ticket functions.

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|--|--------------------------------------|---------------|---------|
| Mobile PDC | TEST_WMSMF (PMX_BUDTOSH2) - John Doe | 12/22/16 03:4 | 47 PM |
| Server: 17.05.31007.18920 Client: 17.05.31007 | Workcenter Ticket Entry (00:30) | * | () |
| Information | John Doe - 12/22/16 03:46 PM | | |
| Work Center | wPD (5X Painter and Dryer Machine) | F11 F | -12 |
| Comment | | F M | 12 |
| | | | |
| Entry Type | Accident | 4 | |
| | BearningFailure | | |
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| | | | × |
| Cancel | Esc Done ^{F1} | | |
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On the PDC office terminal, PDC bookings can be monitored, canceled or created.

| PDC Book | ings Adminis | tration | | | | | | | | | | | | | | | | | | | | | | _ × |
|------------------|-----------------|--------------|-----------|-----------------------|------------------|--------------|-------------|-----------|-----------|-----------|---------|-------------------|----------|--------------|---------|-----------|-------------|----------------|----------------|----------------|----------------|-------------|----------|---------------|
| Employee ID | | | | | | | Br. Ord. No | From | | | | | | | • | Date, Tir | ne From | | 01/0 | 3/17 | | | | |
| Identification C | ode | | | | | | Pr. Ord. No | То | | | | | | | •3 | Date, Tir | ne To | | | | | | | |
| Work Center | | | | | | | Pr. Ord. Op | . ID From | | | | | | | | Errors O | Inly | | | | | | | |
| Operation Cod | e | | _ | | | | Pr. Ord. Op | . ID To | | | | | | | | Hide Uni | done | | | | | | | |
| Item Code | | | | | | | 0 | | | | | | | | | | | | | | | | | |
| Code | Posting Code | Posting Date | Posting 1 | Time Inv. Proc. State | Inv. Proc. Error | | | | | | | Inv. Proc. Dab | e Inv. P | Proc. Time C | ompl. Q | Qty. R | lej, Qty. 1 | lach. Duration | Pers, Duration | Main Product C | ode Pr.Ord.N | Jo Pr.Ord.O | p.ID Emp | ID Emp. N |
| 00013725 | Start Job | 01/03/17 | 16:19 | Processed | | | | | | | | 01/03/17 | 16:39 | | | 0.000 | 0.000 | 0.000 | 0.000 | 📫 mM1001 | 529 | 000136 | .81 📫 | 1 Doe, John 🔺 |
| 00013718 | Completed Job | 01/03/17 | 16:36 | | | | | | | | | | 00:00 | | | 1.000 | 0.000 | 181.000 | 181.000 | 🖘 m4 | ⇒ 523 | ⇒ 000120 | 75 ⇔ | 1 Doe, John |
| 00013726 | Completed Job | 01/03/17 | 16139 | Processed | | | | | | | | 01/03/17 | 16139 | | | 1,000 | 0.000 | 20.000 | 20.000 | -> mol1001 | -> 529 | 000136 | 81 -> | 1 Doe, John |
| 00013727 | Start Job | 01/04/17 | 10:36 | Processed | | | | | | | | 01/04/17 | 10:36 | | | 0.000 | 0.000 | 0.000 | 0.000 | itemul | - 520 - 520 | 000120 | | 1 Dee John |
| 00013728 | Completed Job | 01/04/17 | 10:35 | Processed | | | | | | | | 01/04/17 | 10135 | | | 0.000 | 0.000 | 0.000 | 0.000 | Thereof | - 520 | - 000120 | 22 | 1 Dee John |
| 00013790 | Completed Setup | 01/04/17 | 10:45 | Decented | | | | | | | | 01/04/17 | 10:45 | | | 0.000 | 0.000 | 5.000 | 5.000 | them01 | - 530 - 530 | 00012 | 22 0 | 1 Doe John |
| 00013791 | Start Job | 01/04/17 | 10:46 | Processed | | | | | | | | 01/04/17 | 10:46 | | | 0.000 | 0.000 | 0.000 | 0.000 | Ditem01 | ⇒ 530 | ⇒ 000137 | 32 🔿 | 1 Doe, John |
| 00013792 | Problem | 01/04/17 | 11:03 | Processed | | | | | | | | 01/04/17 | 11:04 | | | 0.000 | 0.000 | 0.000 | 0.000 | -> Item01 | -> 530 | -> 000137 | 32 📫 | 1 Doe John * |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | • |
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| Mat.ID | | Mat.Code | | Mat.Name | | | MatiTy | pe | Used Qty. | | Bir | n Location Name | | | | Par | ameter Name | | Name | Parameter Va | lue | | Comment | |
| 00012074 | | 📫 mM1001 | | Painted Bike F | ramework | | Materia | | | | 1.000 📫 | 01-W2-W2-S1 | | | A | | | | | | | | | |
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| Op.Prod. | ID | Prod. Cod | e | Prod. Name | | Prod. Type | Compl. (| Qty. | | Rej. Qty. | | Bin Location Name | | | | | | | | | | | | |
| 00012072 | | 🦈 m4 | | Wheel | | Main Product | | | 1.000 | | 0.000 | 01-SYSTEM-BIN-LC | OCATION | | - | | | | | | | | | |
| 00012077 | | 📫 mi | | 5m Steel Pipe | • | By-Product | | | 2.000 | | 0.000 | | | | | | | | | | | | | |
| 00012078 | | 🦈 m3 | | Chain | | By-Product | | | 1.000 | | 0.000 | | | | | | | | | | | | | |
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| Reload | Redo Inv. | Tr. M | odiły | Set to Unprocesse | ed Und | Close | | | | | | | | | | | | | | | | | | |
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Many manufacturing companies do not need the full-fledged data collection terminal. Instead, they could do very well with the much simpler PDC Bookings Office Terminal. In this scenario, the production data is collected (mostly) on paper, and the data is entered at the end of the day by an office assistant.

| PDC | PDC Book | ings Offi | ice Terminal | | | | | | | | | | | 1 × |
|--|---------------|-----------|----------------|-------------|--------------|--------------|---------------|-------------|-------------|-----------|----------------|----------------|----------|-----|
| PDC Bookings Office Terminal | Auto-Update R | lows | [| | | | | | | | | | | |
| PDC Sheet Generator | . Inserted | Emp. ID | Emp. Name | Alloc. Code | Posting Date | Posting Time | Posting Code | Reason Name | Compl. Qty. | Rej. Qty. | Mach. Duration | Pers. Duration | Time UoM | |
| PDC Administration | | ⇒ 1 | Doe, John | 00034888 | 02/08/17 | 12:45 | Partial Setup | | 0.000 | 0.000 | 10.000 | 10.000 | min 4 | |
| Simple PDC Shop-Floor Wizard | | | Morrison, Fred | 00034889 | 02/08/17 | 13:01 | Completed Job | , | 0.000 | 0.000 | 0.000 | 0.000 | min | |
| Managing Rejected Batched PDC Transactions | | | | | | | | | | | | | | |
| Update Parent Item Prices Globally | | | | | | | | | | | | | | |
| Production Cost Recalculation Wizard | | | | | | | | | | | | | | |
| Bill of Materials - Component Management | | | | | | | | | | | | | | |
| Production Std Cost Management | 4 | | | | | | | | | | | | • | |
| Production Reports | | | | | | | | | | | | | | |
| 🛅 Cost Calculation | Update | Car | ncel | | | | | | | | | | | 4 |

3.8.3. Quality Control

The early detection of defects reduces product risk and helps to identify delay in an early stage. With the Quality Control function the appointed inspector can report quality assurance data for own-manufactured and outsourced products.

| Mobile STEST_WMSMF (PMX_BUDTOSH2) - John Doe | | | | | | | | | | |
|--|---|-------------|--|--|--|--|--|--|--|--|
| Server: 17.05.31007.18920 Client: 17.05.31007 | Check Results (00:30) | * () | | | | | | | | |
| Operation | 12-10 (oPBI - Bell Installation - 511) | | | | | | | | | |
| Work Center | wAS (Assembler Team) | | | | | | | | | |
| Employee | 2 (Fred Morrison) | | | | | | | | | |
| Quantity | 0/0/0 | | | | | | | | | |
| | | | | | | | | | | |
| 0 IsApproved | Y (OK) | | | | | | | | | |
| 0 WeldThickness | 40 | | | | | | | | | |
| 0 SurfaceQuality | 5 | # | | | | | | | | |
| 0 ApprovalComme | nt Approved | | | | | | | | | |
| Checked Quantity | | | | | | | | | | |
| Set Value | Good [№] Rejected [®] Repairable [™] Cancel ^{Esc} | | | | | | | | | |
| | | | | | | | | | | |

To appoint an inspector, add the Employee Quality Control Role defined on Produmex Manufacturing settings as the Role for employee.

To setup quality control parameters, enable the 'Use Operation Parameters' option on Produmex Manufacturing settings. Define the parameter types on the Operation Parameter Types UDW. Link the quality control parameters to an operation on the Operation Details form.

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Quick Start Tutorial

| General | SQL | Logs | Reports | MRP | PDC | Prod.Order | Master Dat | мто | | Thin Client | Thin Client 2 | Food | Scheduled | | |
|---|---------------------|-------------------|----------------|-----|-----|------------|---------------------|-------------------|-----------|---------------------------|---------------------|------------------|----------------------|--|--|
| Worker can modi | fy bookings | | | | | | | | | | | | | | |
| Approver can mo | dify booking | 15 | | | | | | | | | | | | | |
| Global idle timeou | t (seconds) | | | | | | 0 | | | | | | | | |
| Global screen time | out (second | s) | | | | | 0 | | | | | | | | |
| Employee approv | er role | | | | | | Approver | | | | | | | | |
| Employee Workshop Monitor Role | | | | | | | Workshop Mon | tor | | | | | | | |
| Employee Quality | Control Role | e | | | | | QC Inspector | | | | | | | | |
| Workcenter Admi | in Role | | | | | - | | | | | | | | | |
| Enable PDC | | | | | | Emp | pioyee Master | Data | | | | | | | |
| Enable PTM | | | | | | | | | | | | | | | |
| Enable QC | | | | | | First 1 | Name | John | | Employee No. | 1 | | | | |
| Enable Workshop | Monitor | | | | | Middl | e Name | | | Ext. Employee N | lo, JD | | | | |
| Enable Workcent | er Journal | | | | | Suma | ame | Doe | | ✓ <u>A</u> ctive Employee | | | | | |
| Enable Workcent | er Tickets | | | | | Jah T | al. | | _ | | | | | | |
| Enable Legacy Mo | ode in PDC | | | | | 300 1 | ue . | | _ | | | | | | |
| Pre-fill planned m | aterial quanti | ties | | | | Positio | on turrat | | - | Office Phone | | | | | |
| Pre-fill planned by | /-product qu | antities | 1 | | | Depar | tment | | - | Ext. | | | | | |
| Pre-fill the bin loc | ations quanti | ties with availat | ole quantities | | | Branc | n | | - | Mobile Phone | | | | | |
| Skip material quai | ntities screen | | | | | Manag | ger | | | Pager | | | | | |
| Skip by-product | quantities scr | een | | | | User (| Code | | | Home Phone | | | | | |
| Skip material seria Chia anadust seria | i/batch quar | titles screen | | | | Sales | Employee 🛏 | -No Sales Em | ploy | Fax | | | | | |
| Skip product sena Logout after PDC | bookings | nuues screen | | | | Cost C | Jentre | | | E-Mail | | | | | |
| Enable Dartial Roc | L & Chav | | | | | | | | | Linked Supplier | | | | | |
| Can insert new m | aterials into r | production orde | ans | | | | Add <u>r</u> ess Me | m <u>b</u> ership | Administr | ation <u>P</u> erson | al Fi <u>n</u> ance | Remar <u>k</u> s | Atta <u>c</u> hments | | |
| Login Is Password | Protected | | | | | Ro | les | | | Teams | | | | | |
| Only Job Booking | s On Runnir | a Jobs Screen | | | | # | Role | | 7 | # Team | | Team R | | | |
| Force enter produ | , uct serial/bat | ch numbers and | d quantities | | | | A . | | | * ream | | - | | | |
| | | | | | | 1 | Approver | | - | 1 | | * Member | • | | |
| | | | | | | 2 | QC Inspector | | • | | | | | | |
| | | | | | | 3 | Workshop Monito | r | • | | | | | | |
| | | | | | | 4 | | | • | | | | | | |
| | | | | | | | Set Role as Defau | lt | | | | | _ | | |
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| Update | Cancel | | | | | | | | | | | | | | |
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Permanent link: https://wiki.produmex.name/doku.php?id=implementation:manufacturing:quickstart

Last update: 2021/04/20 09:31

