



Critical
manufacturing
an ASM PT company

Schedule View

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scheduling

Schedule View

The Schedule View is the default View when landing on a **Schedule**. This view is only populated if there is a released **Schedule Scenario**, that is, an operational schedule that has been made effective; otherwise it will be empty. This view is similar to the one shown at the **Schedule Scenario** level.

Should the view be populated, it allows for different visualizations of the effective production plan.

Resource / Material / Employee / Durable Views

The six top left icons allow changing the visualization of the effective plan in two ways.

- The first four icons allow to alternate between four Views:
 - The **Resource** view, which shows the Schedule Scenario Job (remaining Steps to be executed for each Material) allocation for each equipment. This can be helpful in determining the load allocation in critical resources in the system.
 - The **Material** view, which shows, in each row, the sequence of Schedule Scenario Jobs for each Material. This can be helpful in visualizing the execution of a single Material in the chosen timeframe, as well as detecting if there are significant wait times between consecutive operations (as well as between components and finished good Materials, should there be dependencies in the system).
 - The **Employee** view, which displays a list of jobs assigned to each **Employee**.
 - The **Durables** view, which displays a list of jobs assigned to each **Durable**.

Info

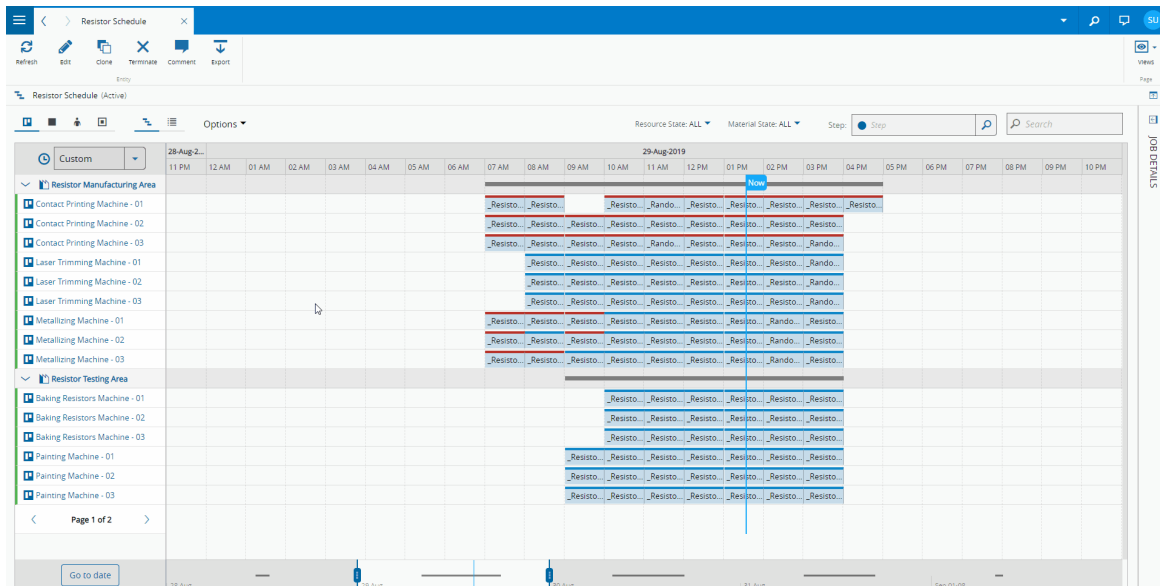
The **Search** bar on the top right of the page applies to whatever entity is chosen for the view: in the Resource view it will look for Resources and in the Material view it will look for Materials.

Info

It is possible to set the order in which the Resources appear in the Resource view using the Resource property Display Order. If there are Resources with the same Display Order, they are ordered alphabetically.

- The second two icons allow to alternate between two different organizations:
 - Calendar view, which draws up a Gantt Chart, showing all the different Schedule Scenario Jobs graphically.
 - List view, showing the different Schedule Scenario Jobs in a tabular view.

It is possible to combine these two view types as needed: there is a Calendar and a List view for both the Resource and the Material view, as can be seen in the following animation.



Calendar View

The Calendar view has functionalities that help the user browse through the production plan.

- Regarding the time window that is shown, the user can configure its width with the **Time Window Width** combo box (1.). Its possible values are:
 - Year
 - Month
 - Week
 - Day
 - Hour
 - Custom

i Info

The system will automatically attempt to display only the options which make sense for the total operation span. For example, if the total planning horizon is smaller than one week, the options year, month and week will not be shown.

Alternatively, the user can use the **Planning Horizon** Bar (2.) to either move or expand/narrow the time window. Note that within this bar, two symbols are shown:

1. The vertical blue bar represents the current date/time.
2. The dark grey bar represents the presence of Schedule Scenario Jobs in different moments of the Planning Horizon, thereby showing the load across the horizon.

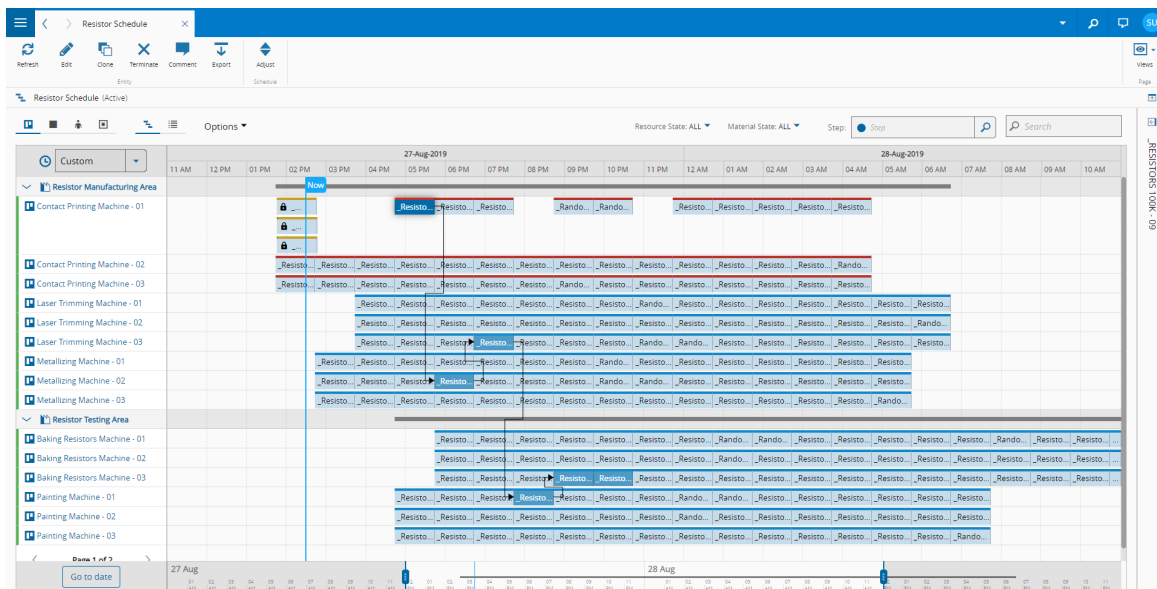
This last functionality is also used on the header of the time window (3.), with the dark grey bar showing the presence of Schedule Scenario Jobs in different moments of the current time window.

In order to restrict the scope of the current window, when using the Resource view (4.), it is possible to collapse/expand the different Areas, hiding or showing their respective Resources. Also, besides using the Search Bar previously described, it is possible to use the **Step Filter** bar (5.), which shows only the Schedule Scenario Jobs for that Step.

By hovering over a Schedule Scenario Job, a tooltip appears detailing it.

Resistors 10k - 07 (Laser Trimming)	
Resource	Due date
Laser Trimming Machine - 01	Mon Dec 11 2017 00:00:00 GM...
State	Planned setup time
Ready	30m 0s
Step	Planned process time
Laser Trimming	14h 20m 0s
Quantity	From
50	05-Mar-2018 11:34
Product	To
Resistor 10k	06-Mar-2018 02:24
Priority	
2	

By clicking on a Schedule Scenario Job on the Resource, Durable or Employee Calendar View, the other Jobs related to the same Material will be highlighted, showing the other Steps the Material has to undergo. Additionally, in the Resource View precedence arrows will show what is the planned flow for that Material in the shop floor.



By clicking on the Schedule Scenario Job, the same information becomes available on the right-hand side panel, on the **Details** tab (6.). This tab also shows information about existing relations to Tools (Durables), Employees or Dependencies that the Schedule Scenario Job may have.

In terms of visibility, there are three extra filters available. The **Options** filter (7.) besides allowing to hide/show the precedence arrows previously described, also allows to color-code the Schedule Scenario Jobs according to four different criteria:

- Name. Useful for seeing the flows of different Materials.
- Priority. Useful for seeing if the priorities are being respected.
- Product. Useful for seeing when possible setups/changeovers between Products are occurring, as well as seeing when each one is processed.
- Product Group. Useful for seeing when possible setups/changeovers between Product Groups are occurring, as well as seeing when each one is processed.

Using the Options filter you can also choose to view the jobs separated by **Production Order** by selecting the appropriate option.

Show precedence arrows:

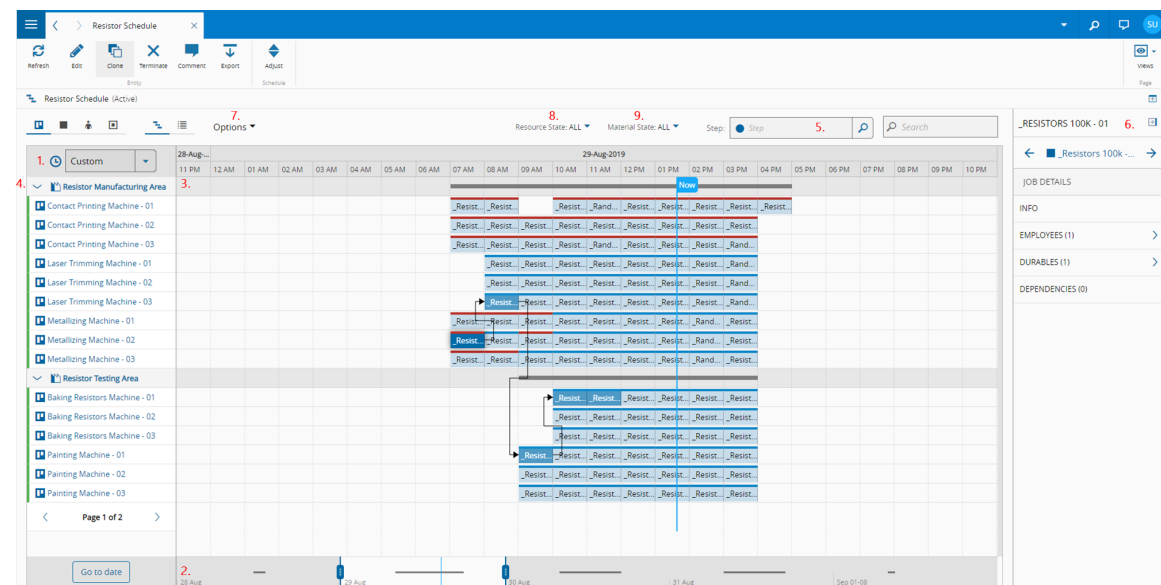
Use colors to differentiate jobs:

Differentiate materials by: Name
 Priority
 Product
 Product Group

View by Production Order:

Row height :

Finally, the **Resource State** (8.) and **Material State** (9.) allow the user to filter these entities according to the state.



The screenshot displays the 'Resistor Schedule' application window. At the top, there is a toolbar with icons for refresh, edit, clone, terminate, comment, export, and adjust. Below the toolbar, the main interface is divided into several sections:

- Left Panel (4.):** A tree view showing the hierarchy of manufacturing areas: 'Resistor Manufacturing Area' (containing Contact Printing, Laser Trimming, and Metallizing machines) and 'Resistor Testing Area' (containing Baking Resistors and Painting machines).
- Top Bar (7.):** An 'Options' dropdown menu.
- Filtering (8. and 9.):** 'Resource State: ALL' and 'Material State: ALL' dropdown menus.
- Step (5.):** A 'Step' dropdown menu.
- Main Gantt Chart:** A grid showing tasks for various machines over time (28-Aug to 31-Aug). Tasks are represented by colored bars with labels like '_Resist_'. A 'Now' indicator is present.
- Bottom Bar (2.):** A 'Go to date' field and a timeline with date markers (28 Aug, 29 Aug, 30 Aug, 31 Aug, Sep 01-08).
- Right Panel (6.):** A sidebar for job details, including 'JOB DETAILS', 'INFO', 'EMPLOYEES (1)', 'DURABLES (1)', and 'DEPENDENCIES (0)'.

List View

The List View allows for a time filtering, using the **From** (1.) and **To** (2.) textboxes to limit the analysis window. It is also possible to expand and collapse the Schedule Scenario Jobs assigned to an entity, by clicking on the **Name** (3.) of that entity.

Resistor Schedule

Refresh Edit Clone Terminate Comment Export

Resistor Schedule (Active)

From: 08/27/2019 11:00 AM To: 08/28/2019 11:00 AM

MATERIAL	STEP	STATE	DUE DATE	FROM	TO	PLANNED SETUP TIME	PLANNED PROCESS TIME
CONTACT PRINTING MACHINE - 01 (15 MATERIALS) / UP							
_Resistors 10k - 02	Contact Printing	Completed	02/24/2019 12:00 AM	08/27/2019 01:45 PM	08/27/2019 01:46 PM	-	1 hour
_Resistors 10k - 05	Contact Printing	Completed	02/24/2019 12:00 AM	08/27/2019 01:45 PM	08/27/2019 01:46 PM	-	1 hour
_Resistors 100k - 01	Contact Printing	InProgress	02/24/2019 12:00 AM	08/27/2019 01:45 PM	08/27/2019 02:43 PM	-	1 hour
_Resistors 1M - 08	Contact Printing	InProgress	02/24/2019 12:00 AM	08/27/2019 01:46 PM	08/27/2019 08:43 PM	-	1 hour
_Resistors 10k - 06	Contact Printing	InProgress	02/24/2019 12:00 AM	08/27/2019 01:46 PM	08/27/2019 11:43 PM	-	1 hour
_Resistors 100k - 09	Contact Printing	Ready	02/24/2019 12:00 AM	08/27/2019 04:43 PM	08/27/2019 05:43 PM	-	1 hour
_Resistors 1M - 02	Contact Printing	Ready	02/24/2019 12:00 AM	08/27/2019 05:43 PM	08/27/2019 06:43 PM	-	1 hour
_Resistors 1M - 04	Contact Printing	Ready	02/24/2019 12:00 AM	08/27/2019 06:43 PM	08/27/2019 07:43 PM	-	1 hour
_Random Resistor - 01	Contact Printing	Ready	02/24/2019 12:00 AM	08/27/2019 08:43 PM	08/27/2019 09:43 PM	-	1 hour
_Random Resistor - 03	Contact Printing	Ready	02/24/2019 12:00 AM	08/27/2019 09:43 PM	08/27/2019 10:43 PM	-	1 hour

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Furthermore, viewing the **Materials** currently scheduled, you can see the Due Date of each **Material** (4.), as shown in the image below:

Planning Scenario

Refresh Edit Terminate Comment Copy of schedule Synchro... Generate More

Planning Scenario (Active)

From: MM/dd/yyyy HH:mm PP To: MM/dd/yyyy HH:mm PP

RESOURCE	AREA	STEP	STATE	FROM	TO	PLANNED PROCESS TIME
_RESISTORS 100K - 01 Due date: 10/23/2019 11:00 PM 4.						
Metallizing Machine - 02	Resistor Manufacturing Area	Metallizing	Up	08/28/2019 03:59 PM	08/28/2019 04:59 PM	1 hour
Laser Trimming Machine - 03	Resistor Manufacturing Area	Laser Trimming	Up	08/28/2019 04:59 PM	08/28/2019 05:59 PM	1 hour
Painting Machine - 01	Resistor Testing Area	Painting	Up	08/28/2019 05:59 PM	08/28/2019 06:59 PM	1 hour
Baking Resistors Machine - 01	Resistor Testing Area	Baking Resistors	Up	08/28/2019 06:59 PM	08/28/2019 07:59 PM	1 hour
Baking Resistors Machine - 01	Resistor Testing Area	Baking Resistors	Up	08/29/2019 02:00 AM	08/29/2019 03:00 AM	1 hour
Tin Plating Machine - 01	Resistor Testing Area	Tin Plating	Up	08/29/2019 03:00 AM	08/29/2019 04:00 AM	1 hour
Test and Packing Machine - 02	Resistor Testing Area	Test and Packing	Up	08/29/2019 04:00 AM	08/29/2019 05:00 AM	1 hour
_RESISTORS 100K - 02 Due date: 10/23/2019 11:00 PM						
Metallizing Machine - 01	Resistor Manufacturing Area	Metallizing	Up	08/28/2019 03:59 PM	08/28/2019 04:59 PM	1 hour
Laser Trimming Machine - 01	Resistor Manufacturing Area	Laser Trimming	Up	08/28/2019 04:59 PM	08/28/2019 05:59 PM	1 hour
Painting Machine - 02	Resistor Testing Area	Painting	Up	08/28/2019 05:59 PM	08/28/2019 06:59 PM	1 hour

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