

Defects and Quality Quick Start Guide

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enteringDefectTypes.dita

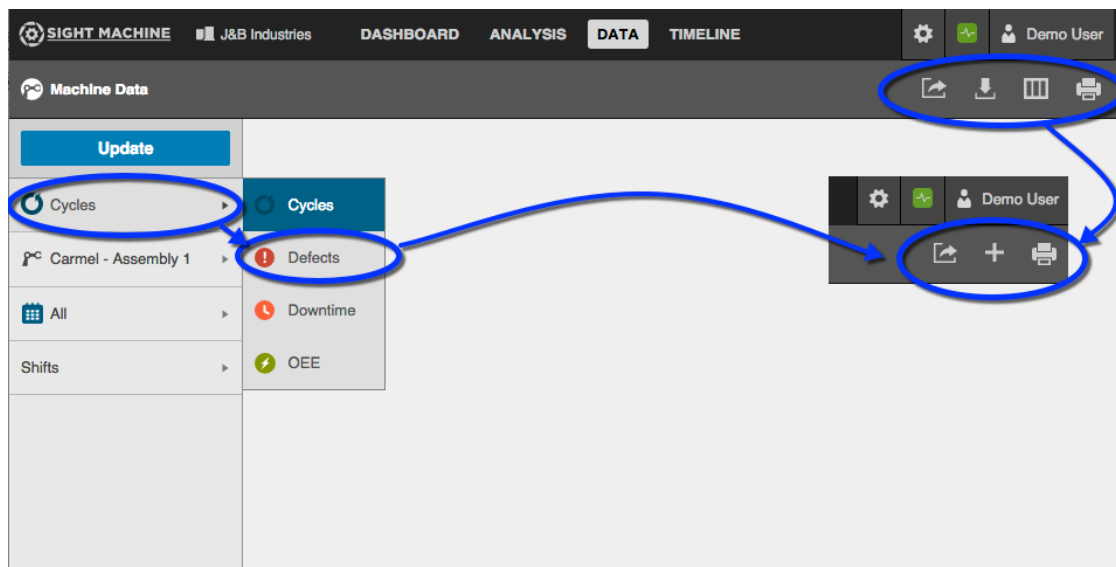
enterDefectsIntro.dita

Batch Defect Entry

A manager or a QA lab technician might record multiple defects at a time after reviewing output at the end of a shift. For example, if it's your company's policy to check the first and last item of every batch, and discard an entire batch if that first and last item are defective, you'll use the cloud-based Sight Machine application's Data tab to enter all the defects at once.

The instructions below are steps for entering a batch of defects.

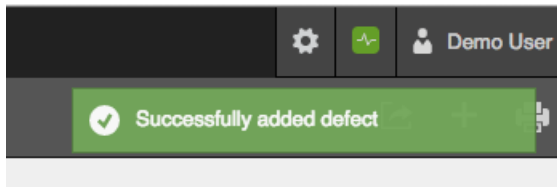
1. On the Data tab, select Defects from the Update Menu to toggle the Resource toolbar (upper right corner of the screen) to display the Add (+) icon.



2. Click the Add icon to display the Add Defects dialog box.

 A screenshot of the 'Add Defects' dialog box. The title 'Add Defects' is at the top. Below it are several form fields: 'Date' with a 'Select Date' button, 'Shift' with a dropdown menu set to 'Off Shift', 'Defect Type' with a dropdown menu set to 'Too much glue applied', 'Quantity' with a text input field containing '1', 'Model' with an empty text input field, 'Size' with an empty text input field, 'Gender' with a dropdown menu set to 'Male', and 'Left/Right' with a dropdown menu set to 'Left'. At the bottom are three buttons: 'Cancel', 'Save', and 'Add More'. A blue arrow points from the '+' icon in the resource toolbar from the previous screenshot to the 'Add Defects' dialog box.

3. Enter details for the defect and click Save. A message displays at the top right of the application indicating that your defect has been added.



Line Operator Defect Entry

A line operator can use a tablet to enter a defects at the machine or line at the time in which they are detected. This real-time defect entry does not require a working Internet connection. If the Internet connection goes down, the line operator will still be able to add a defect, and the added defects will be synchronized to the cloud pending Internet availability.

Consider the example of a line operator responsible for catching discolored shoe parts. That line operator would follow these instructions to record a defective item.



Note: The images below are only examples and your tablet display will appear differently, with defect types unique to the machine type of interest. These defect types are configurable from the settings page

1. Select a machine from the Machine drop-down list and then tap the Add Defect button.

Auto fill with machine entered below.
(Might be locked down)

Defect Entry for PC_YY_AutoNoSew_1

Machine: PC_YY_AutoNoSew_1 Date: 8/15/15 Shift: 1 (0:00-7:59)

Pairs: 0.5 Model: Air Jordan Size: Select One Gender: Select One

Defect Types: OPERATION Contamination, COSMETIC Bonding Gap, OPERATION Bottom Quality Fall..., COSMETIC Over Cement, OTHERS Others

Add Defect

Recently Entered Defects

Machine	Date	Shift	Pairs	Model	Size	Gender	Defect Type
PC_YY_AutoNoSew_1	8/15/15	1 (0:00 - 7:59)	3.5	Lebron	11	Male	Hole
PC_YY_AutoNoSew_1	8/15/15	1 (0:00 - 7:59)	2.5	Lebron	11	Male	Hole
PC_YY_AutoNoSew_1	8/15/15	1 (0:00 - 7:59)	1.5	Lebron	11	Male	Hole

This displays the Defect Entry screen.

Defect Entry for PC_YY_AutoNoSew 1

< Back

Select a Type

- OPERATION Contamination
- OPERATION Bottom Quality Failure
- COSMETIC Over Cement
- COSMETIC Bonding Gap
- OTHERS Others

2. Select a defect type and then tap the Back link at the top left to return to the Add Defect screen.

Defect Entry for PC_YY_AutoNoSew 1

Machine: PC_YY_AutoNoSew_1 Date: 8/15/15 Shift: 1 (0:00-7:59)

Pairs: 0.5 Model: Air Jordan Size: Select One Gender: Select One

Defect Type: OTHERS Others

Add Defect

Recently Entered Defects

Machine	Date	Shift	Pairs	Model	Size	Gender	Defect Type
PC_YY_AutoNoSew_1	8/15/15	1 (0:00 - 7:59)	3.5	Lebron	11	Male	Hole
PC_YY_AutoNoSew_1	8/15/15	1 (0:00 - 7:59)	2.5	Lebron	11	Male	Hole
PC_YY_AutoNoSew_1	8/15/15	1 (0:00 - 7:59)	1.5	Lebron	11	Male	Hole

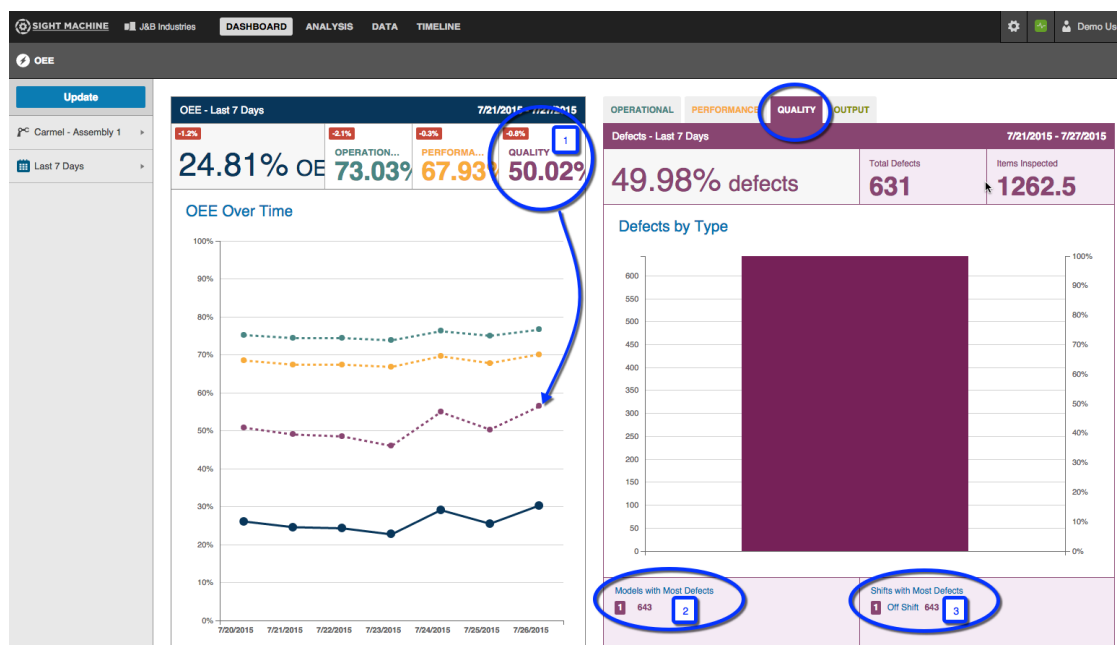
Automated Inspection

Sight Machine can create defects directly from automated inspection of machine data. If your machine can produce a signal to indicate detection of a defect, Sight Machine can track the detections automatically and generate defect models.

Each time a defect is reported by a machine's signal, it is automatically recorded in the Sight Machine application. These defects can include rich information, such as a picture of the defect, when something goes wrong. Sight Machine grabs that image along with any other captured data.

You can view auto-inspected defects as a summary from the Dashboard tab or in detail on the Data tab.

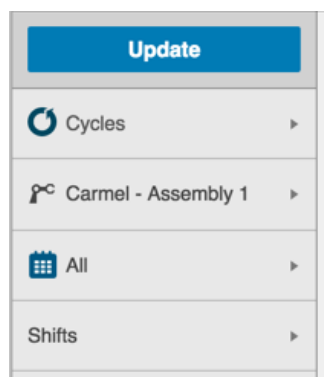
Auto-Inspected Defects on the Dashboard Tab



Click one of the Quality links (1, 2, or 3 above) to display the Data tab with detailed defect information.

Auto-Inspected Defects on the Data Tab

To view reports for auto-detected defects, navigate to the Data tab and select options from the Update pane to customize report configuration and filtering.



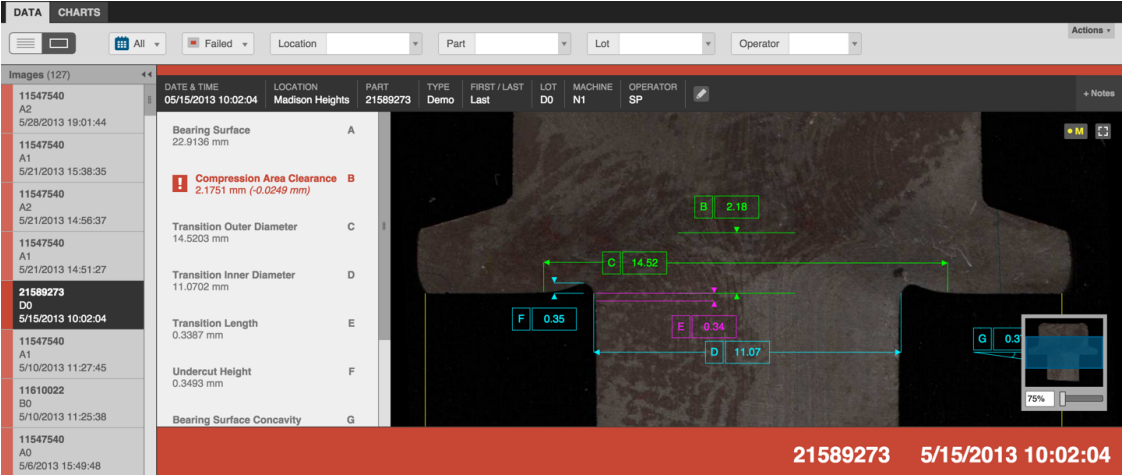
Click any column header to sort the defect entries in ascending order by that column.

Industries DASHBOARD ANALYSIS DATA TIMELINE

2,794 Results

MACHINE	START TIME	END TIME	SHIFT	MODEL	SIZE	GEND...	ORIENTATION	DEFECT CODE	QUANTITY
Carmel - Assemb...	10/1/2015 0:00:00	10/1/2015 8:00:00	Shift 1	TestM...		Female	Left	Glue not sticky e...	
Carmel - Assemb...	7/27/2015 20:36:16	7/27/2015 20:36:16	Off ...					null	1
Carmel - Assemb...	7/27/2015 20:25:04	7/27/2015 20:25:04	Off ...					null	1
Carmel - Assemb...	7/27/2015 20:11:46	7/27/2015 20:11:46	Off ...					null	1
Carmel - Assemb...	7/27/2015 20:02:50	7/27/2015 20:02:50	Off ...					null	1

Sight Machine can track defects that occur from automated inspection systems, including image data and measurement overlays for later review.



viewingQualityData.dita

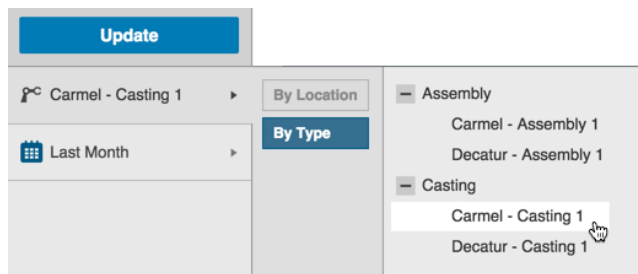
Quality Data on the Dashboard (OEE) Tab

Manufacturing quality appears as a Pareto chart on the Dashboard tab's Quality subtab. Use the following steps to refine and view quality metrics from the Dashboard tab.

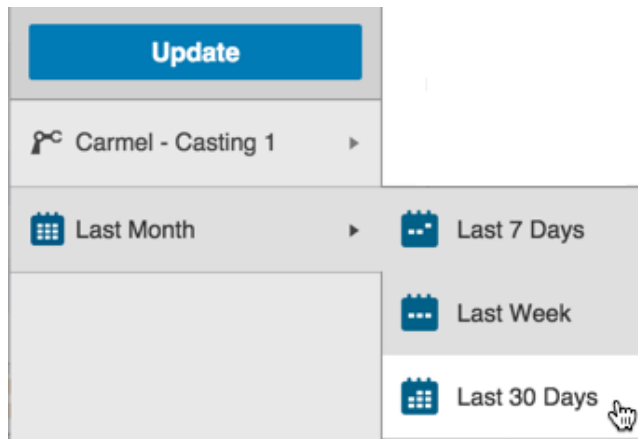


Note: The Quality subtab may be labeled differently to a unique name specific to your organization.

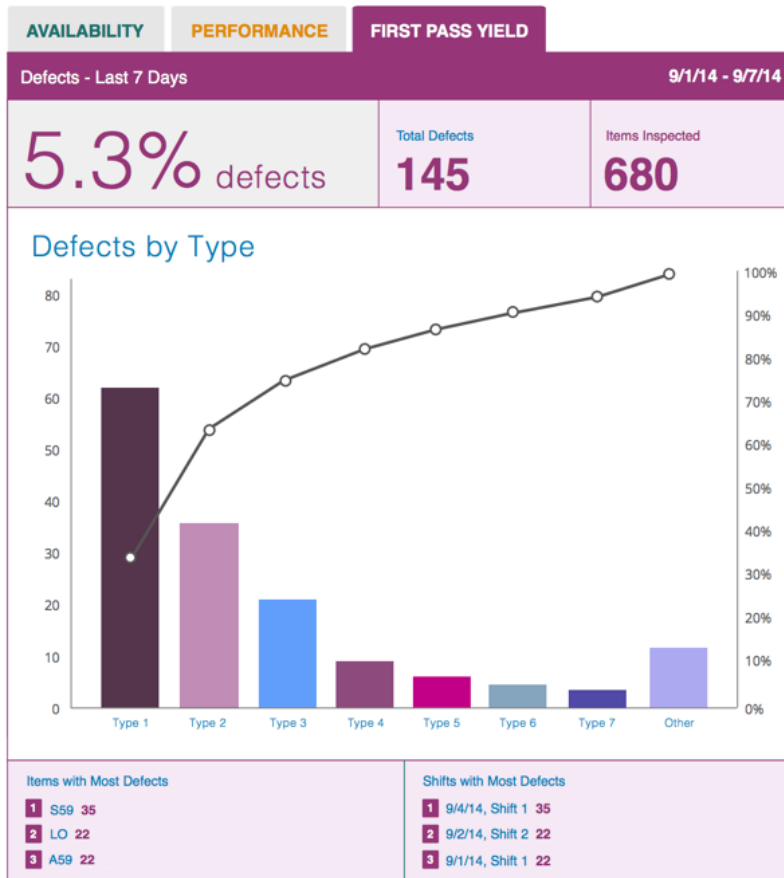
1. In the Update pane, select a manufacturing site and machine from the site picker.



2. Select a date range from the Date picker.



3. Click Update to apply your selections to the data.
4. Click the Quality subtab to display the Pareto chart showing Defects by Type as a percentage of total items inspected for the time period.

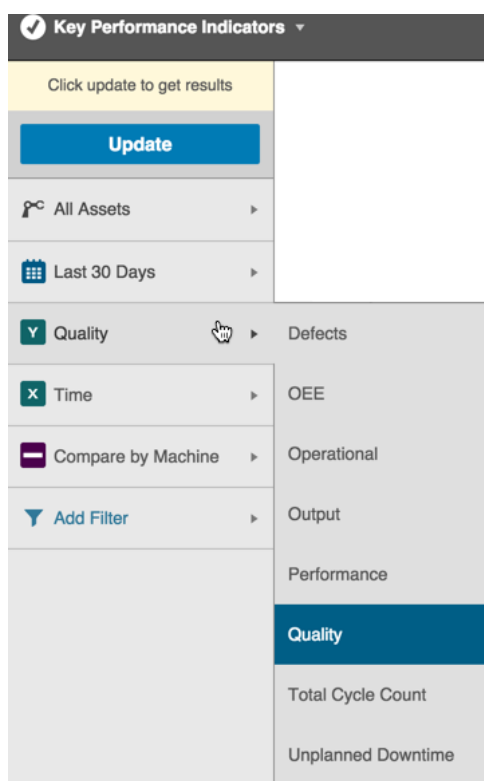


For more details, click any of the text links in the lower two panes to display the Data tab (i.e. "Items with Most Defects" or "Shifts with Most Defects" and the links under each of those).

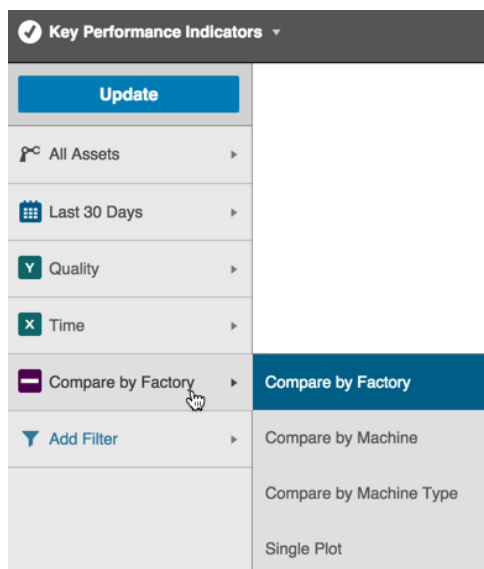
KPI Charting on the Analysis Tab

The KPI chart on the Analysis tab is another view into your manufacturing quality by time and factory, machine, machine type, or single plot. Use the following steps to view this data.

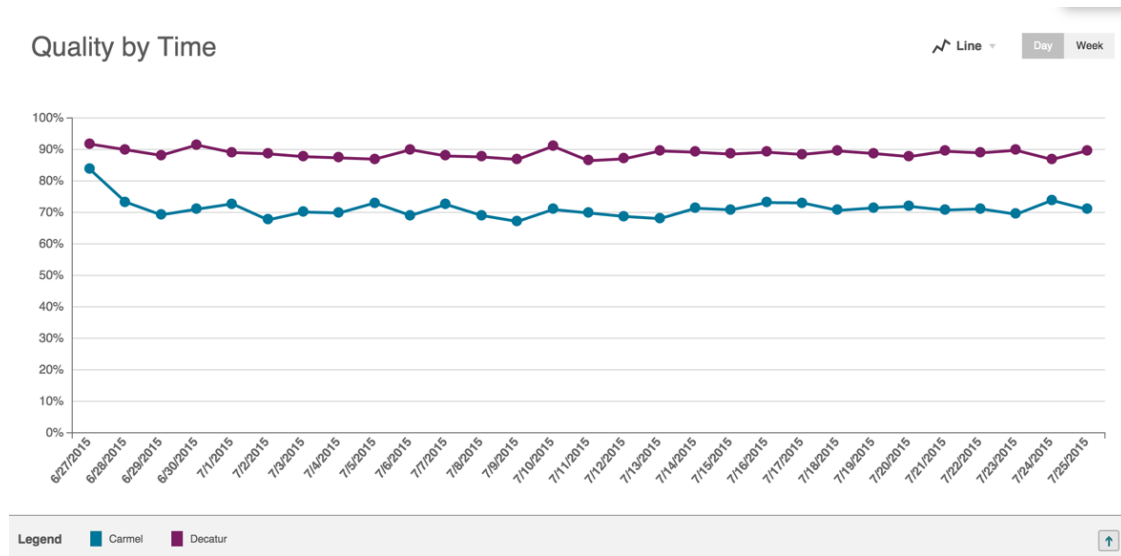
1. Click the Analysis tab.
2. On the Update panel, select the criteria for your review from the Asset and Date pickers, specifically choosing Quality from the Defect picker.



3. Select Time from the Time/Shift picker and the option of your choice from the Comparison picker (see image below).



4. Click Update to view quality manufacturing production as measured by facility over time.



5. Click any point along the KPI chart graphs to display the Data tab with more details.