

Three Ways to Input Defects in Sight Machine

Contents

Three Ways to Input Manufacturing Defects.....	3
Batch Defect Entry.....	4
Real-Time Defect Entry.....	6
Defect Auto-Inspection.....	8

Three Ways to Input Manufacturing Defects

There are three ways to input manufacturing defects into Sight Machine:

1. Managers and QA lab technicians: Batch defect entry on the Sight Machine Data Tab
2. Line Operators: Manual real-time, single-defect entry using a tablet
3. Automated Defect Inspection: Through machine input automated inspection



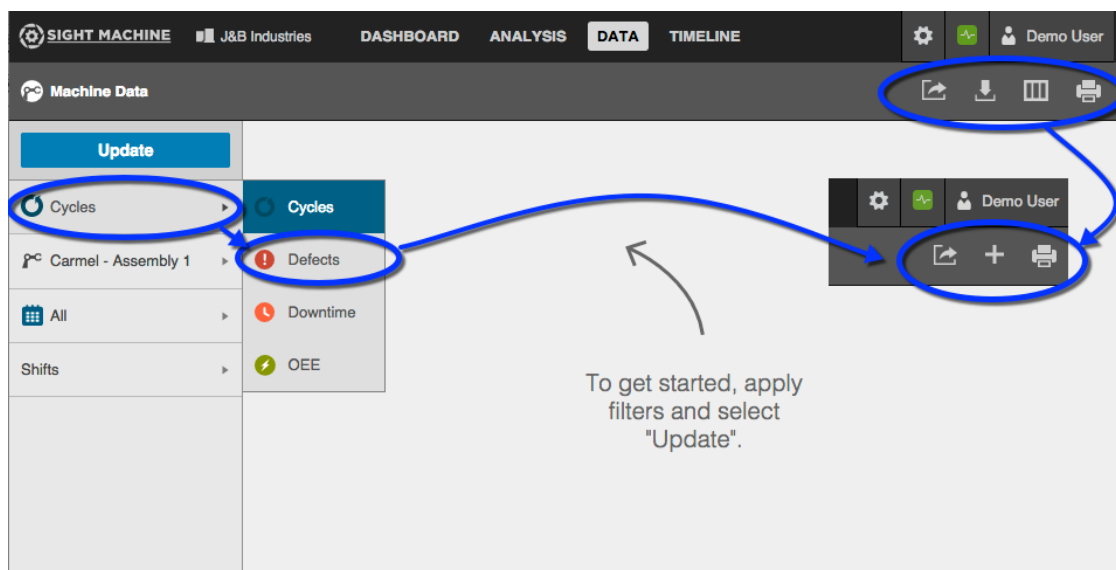
Note: While defect input is done in essentially the three above ways no matter the product, the Sight Machine application is flexible enough to consume virtually any input device on any machine. Whether you're measuring defects for steering column lock assemblies or top-stitching on soccer shoes, Sight Machine has a way to input that defect and to view it in the application.

Batch Defect Entry

If you're a manager or QA lab technician, you may need to batch enter defects after reviewing output at day's end. 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 do so.

The instructions below are an example of batch entering defects in Sight Machine.

1. On the Data tab, select Defects from the Update Menu to toggle the Resource icons to display the Add (+) icon.



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

The screenshot shows the 'Add Defects' dialog box. It contains the following fields and options:

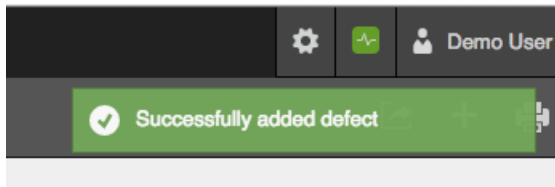
- Date**: Select Date (dropdown)
- Shift**: Off Shift (dropdown)
- Defect Type**: Too much glue applied (dropdown)
- Quantity**: 1 (text input)
- Model**: (text input)
- Size**: (text input)
- Gender**: Male (dropdown)
- Left/Right**: Left (dropdown)
- Buttons**: Cancel, Save, Add More

3. Select/enter details to define the defect you are adding in the provided fields (i.e. date, shift, defect type, etc).



Note: Defect Types are defined in Settings -> Machine Settings -> Defect Types. You must have appropriate permissions to access Sight Machine Settings.

4. Click Save to save the defect. A message displays at the top right of the application indicating that your defect has been added.



Real-Time Defect Entry

Line operators may use a tablet in real-time to enter single-entry defects while on the manufacturing floor at the machine. This system of defect entry is highly available, and operates on the premise that if the Internet connection ever goes down, the line operator will still be able to add a defect. The images below are only examples and your tablet display will appear differently, with defect types unique to your facility and product.

For example, if you're a line operator with the responsibility for identifying discolored shoe parts, and you find a shoe part that is discolored and must be discarded, you can use a tablet to enter that defect and select the specific defect reason.

The instructions below are an example of entering a real-time defect in Sight Machine.

1. Using your tablet, 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

Not required

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 for the machine selected from the Machine drop-down list.

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. Tap a defect to select it and then tap the Back link at the top left of the screen 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

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

More >

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

Defect Auto-Inspection

Your machine can tell you when to eject a defect. As long as there is a signal on your machine as it manufactures products, Sight Machine collects this information, automatically tracking it to generate defect models directly from the machine itself.



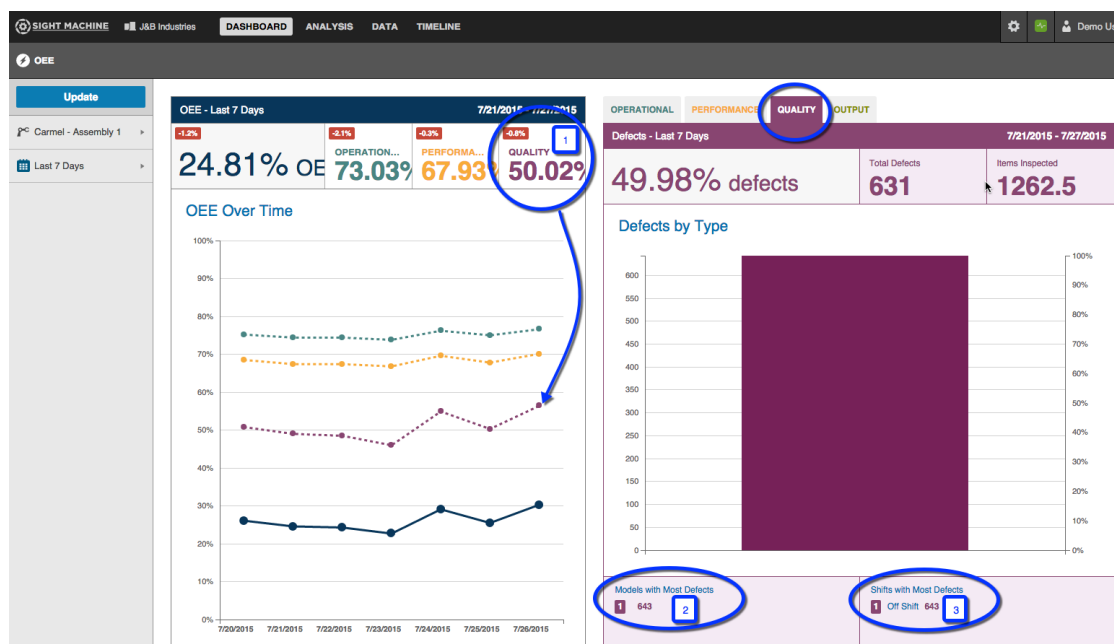
Note: It is assumed that Sight Machine is up and running for defect auto-inspection.

For example, each time a defect is reported by a machine's signal, it is automatically recorded in the Sight Machine application. If your machine's signal is a camera that takes a picture 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

The Quality metric on the Dashboard tab provides a high-level view of auto-inspected defects.



Clicking the Quality links (1, 2, or 3 in the image above) automatically display the Data tab with detailed defect information (i.e. Defect Code, etc.).

Auto-Inspected Defects on the Data Tab

On the Data tab, you can click to select options in the left-hand panel (Defects, machine, date, etc.) to display defects based on a specific machine and your selected criteria.

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



Note: The Defect Code options are configured on the Machine Settings tab's Defect Types subtab in the Settings view. You must have appropriate Sight Machine permissions to access the Settings view.

Click any of the column headers to re-sort and display the auto-inspected defects in ascending order by the column selected.

The image below is an example of a defect reported by camera.

