

Three Ways to Input Defects in Sight Machine



Contents

Three Ways to Enter Defects..... 3

Batch Defect Entry..... 4

Real-Time Defect Entry..... 5

Defect Auto-Inspection..... 7

Three Ways to Enter Defects

There are three ways to enter manufacturing defects into Sight Machine. Each of these three ways is used by a different role at your organization.

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



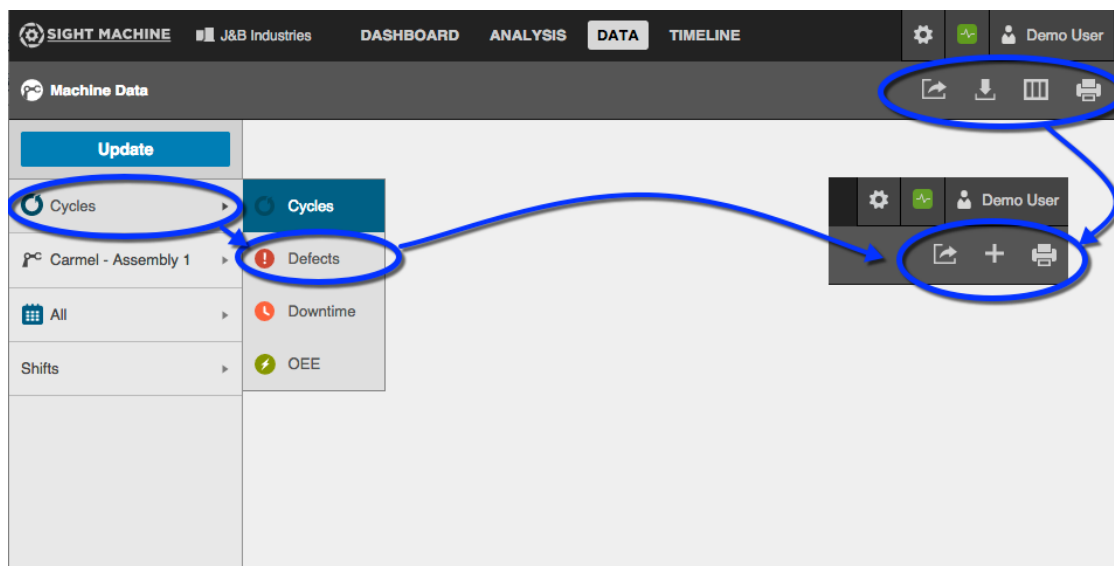
Note: While defect input is done in essentially the three above ways no matter the product, the Sight Machine application is flexible enough to consume input from virtually any input device on any machine. Whether you're measuring defects for steering column lock assemblies or top-stitching on soccer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

Batch Defect Entry

A manager or a QA lab technician might record multiple defects in a batch 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 do so.

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.



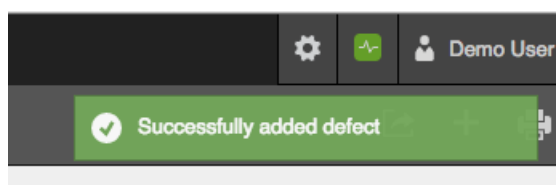
2. Click the Add icon to display the Add Defects dialog box.

 The screenshot shows the 'Add Defects' dialog box. It has a title bar with a close button and a plus sign icon. The dialog contains the following fields:

- 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)

 At the bottom, there are three buttons: Cancel, Save, and Add More. A blue arrow points from the plus sign icon in the top right of the dialog to the 'Add More' button.

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.



Real-Time Defect Entry

A line operator might use a tablet to enter a single defect at the same time it is 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.

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 your facility and product.

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, 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

Defect Auto-Inspection

Your machine can tell you when to eject a defect. 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. 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.

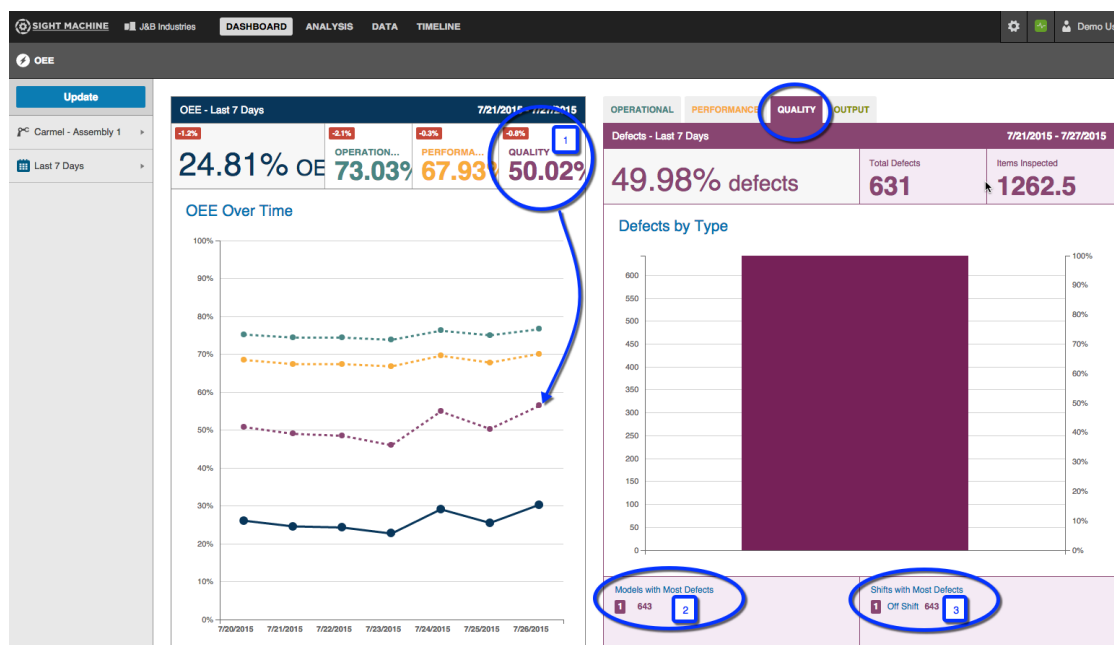
You can view auto-inspected defects as a summary from the Dashboard tab or in detail on the Data tab.



Note: Auto-tracking of defects can take place only when Sight Machine is running.

Auto-Inspected Defects on the Dashboard Tab

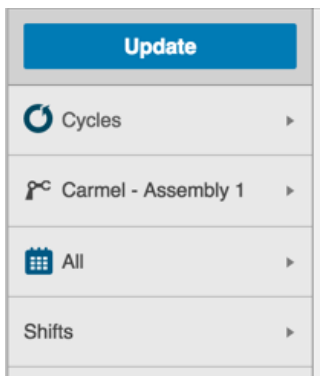
The Quality subtab on the Dashboard tab provides a high-level view of auto-inspected defects.



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

A defect reported by a machine with a camera might produce an etnry similar to the following.

DATA CHARTS

All Failed Location Part Lot Operator

Images (127)

11547540 A2 5/28/2013 19:01:44

11547540 A1 5/21/2013 15:38:35

11547540 A2 5/21/2013 14:56:37

11547540 A1 5/21/2013 14:51:27

21589273 D0 5/15/2013 10:02:04

11547540 A1 5/10/2013 11:27:45

11610022 B0 5/10/2013 11:25:38

11547540 A0 5/6/2013 15:49:48

DATE & TIME LOCATION PART TYPE FIRST / LAST LOT MACHINE OPERATOR

05/15/2013 10:02:04 Madison Heights 21589273 Demo Last DO N1 SP

Bearing Surface 22.9136 mm A

Compression Area Clearance 2.1751 mm (-0.0249 mm) B

Transition Outer Diameter 14.5203 mm C

Transition Inner Diameter 11.0702 mm D

Transition Length 0.3387 mm E

Undercut Height 0.3493 mm F

Bearing Surface Concavity G

21589273 5/15/2013 10:02:04