

# **Three Ways to Input Downtime in Sight Machine**



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## Three Ways to Enter Downtime

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

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



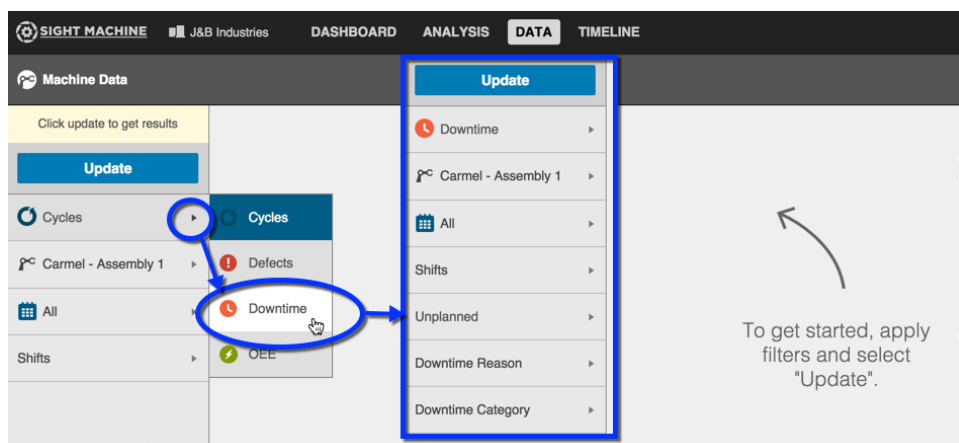
**Note:** While downtime input is done in essentially the three above ways no matter the product, the Sight Machine application is flexible enough to consume input from virtually any input device. Whether you're measuring downtime for machines that build steering column lock assemblies or top-stitching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

# Batch Downtime Entry

A manager or a QA lab technician might record multiple downtimes or need to edit downtime types and reasons for downtimes entered by either line operators or auto-detection.

The instructions below are steps for viewing reported downtime in Sight Machine.

1. On the Data tab, select Downtime from the Update Menu to toggle the Update Menu options to downtime-specific choices.



2. Click to select details from the Update Menu and click Update. Machine downtime data displays according to your criteria.

Update	1,211 Results						
	MACHINE	START TIME	END TIME	CYCLE TIME	SHIFT	DOWNTIME TYPE	REASON CODE
Downtime	Carmel - Assemb...	7/27/2015 19:54:25	7/27/2015 19:58:21	00:03:56	Shift 2	unplanned	011 - Press too hot
Carmel - Assembly 1	Carmel - Assemb...	7/27/2015 19:36:35	7/27/2015 19:40:30	00:03:55	Shift 2	unplanned	000 - Part Dropped
	Carmel - Assemb...	7/27/2015 19:16:33	7/27/2015 19:20:28	00:03:55	Shift 2	unplanned	000 - Part Dropped
All	Carmel - Assemb...	7/27/2015 18:45:24	7/27/2015 18:49:17	00:03:53	Shift 2	unplanned	000 - Part Dropped
Shift 2	Carmel - Assemb...	7/27/2015 18:20:50	7/27/2015 18:24:42	00:03:52	Shift 2	unplanned	000 - Part Dropped
	Carmel - Assemb...	7/27/2015 18:07:31	7/27/2015 18:11:24	00:03:53	Shift 2	unplanned	000 - Part Dropped
Unplanned	Carmel - Assemb...	7/27/2015 17:54:12	7/27/2015 17:58:07	00:03:55	Shift 2	unplanned	012 - Ambient Te...
Downtime Reason	Carmel - Assemb...	7/27/2015 17:34:07	7/27/2015 17:38:02	00:03:55	Shift 2	unplanned	000 - Part Dropped
	Carmel - Assemb...	7/27/2015 17:25:14	7/27/2015 17:29:07	00:03:53	Shift 2	unplanned	000 - Part Dropped

# Real-Time Downtime Entry

A line operator might use a tablet to enter a single downtime at the same time it is detected. This real-time downtime entry does not require a working Internet connection. If the Internet connection goes down, the line operator will still be able to add downtime.

Consider the example of a line operator responsible for identifying machine downtime for a machine that produces lock mechanisms. If that machine goes down for any variety of reasons, that line operator would follow these instructions to record that machine's downtime.



**Note:** The images below are only examples and your tablet display will appear differently, with downtime reasons unique to your facility and product.

1. Select a machine from the Machine drop-down list.

Machine	Date/ Time Entered	Reason
PC_YY_AutoNoSew_1	8/15/15 1:25:14	Maintenance
PC_YY_AutoNoSew_1	8/15/15 1:21:10	Operator Stop
PC_YY_AutoNoSew_1	8/15/15 1:18:35	Operator Stop

2. Select the particular machine part that resulted in the downtime. Select the More drop-down list to see more machine part options.

Machine: PC\_YY\_AutoNoSew\_1

**Breakdown Reasons:**

- BREAKDOWN: Facilities
- BREAKDOWN: Vision System
- BREAKDOWN: Conveyor
- BREAKDOWN: Laser

**Changeover:**

- CHANGEOVER: Size/Color Change

**Operational Downtime:**

- OPERATIONAL DOWNTIME: Waiting for Materials

**More Options:**

- BREAKDOWN: Exhaust
- BREAKDOWN: Pneumatic System
- BREAKDOWN: Software
- BREAKDOWN: Cooling System
- BREAKDOWN: Power Delivery
- OPERATIONAL DOWNTIME: Waiting for Operators
- OPERATIONAL DOWNTIME: First Article Inspection
- OTHER: Other

**Recently Entered Downtime**

Machine	Date/ Time Entered
PC_YY_AutoNoSew_1	8/15/15 1:25:14
PC_YY_AutoNoSew_1	8/15/15 1:21:10
PC_YY_AutoNoSew_1	8/15/15 1:18:35

3. Select the Add Downtime button to display the "Select a Reason" screen and select one of the available buttons to select the downtime reason and automatically return to the Downtime Entry screen.

**Select a Reason**

**Planned**

- PLANNED: Meal / Break
- PLANNED: Scheduled Preventative Ma...
- PLANNED: Shift Meeting
- PLANNED: Training
- PLANNED: Trial / Experiment
- PLANNED: Not Scheduled for Product...

**Unplanned**

- BREAKDOWN: Facilities
- BREAKDOWN: Power Delivery
- BREAKDOWN: Exhaust
- CHANGEOVER: Size / Color Change
- BREAKDOWN: Pneumatic System
- OPERATIONAL DOWNTIME: Waiting for Materials
- BREAKDOWN: Software
- OPERATIONAL DOWNTIME: Waiting for Operators
- BREAKDOWN: Conveyor
- OPERATIONAL DOWNTIME: First Article Inspection
- BREAKDOWN: Vision System
- OPERATIONAL DOWNTIME: Over TPM Time
- BREAKDOWN: Cooling System
- OTHER: Other
- BREAKDOWN: Laser

# Downtime Auto-Inspection

Your machine can tell you when it goes down unexpectedly. If your machine can produce a signal to indicate detection of downtime, Sight Machine can track the detections automatically and generate downtime models.

Each time downtime is reported by a machine's signal, it is automatically recorded in the Sight Machine application.

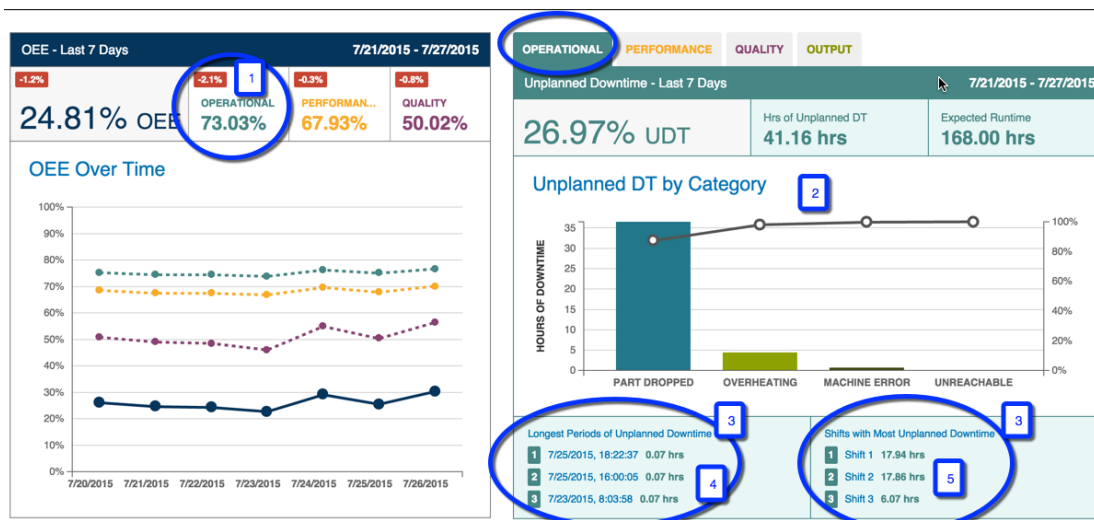


**Note:** Auto-tracking of downtime can take place only when Sight Machine is running.

You can view auto-inspected downtime as a summary from the Dashboard tab, which includes links to more detailed information on the Analysis, Data, and Timeline tabs.

## Auto-Detected Downtime on the Dashboard Tab

The Operational plot and subtab on the Dashboard tab provide a high-level view of auto-detected downtime.



Click one of the Operational links (1, 2, 3, or 4 above) to display detailed downtime information in various tabs.

- Click the OEE Summary pane's Operational link to display the Data tab with data for all downtimes.
- Click any of the bars in the bar chart or the line plot in the OEE Details pane to display the Analysis tab to display details about downtime by reason.
- Click the "Longest Periods of Unplanned Downtime" link to display the Data tab with details about downtime by longest downtime period. Click any of the individual Date/Time links to display the Timeline tab with details about cycle and machine availability.
- Click the section "Shift with Most Unplanned Downtime" link to display the Data tab with details about downtime sorted by shifts with the most machine downtime. Click any of the individual Shift links to display the Data tab with details about downtime for that particular shift.