





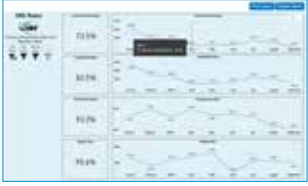
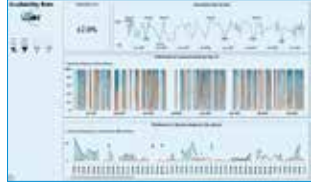


Optimize Aseptic filling production for better equipment control and operation with JBT iOPS®.

JBT iOPS® is Overall Equipment Effectiveness (OEE) software for improved Aseptic filler utilization, visibility and control. **With iOPS® manufacturers can capture more data, analyze it faster, and act on it immediately.** Get access to important production effectiveness data in real time to locate bottlenecks and root causes through production and machine utilization reports. iOPS is based on **agnostic technology to connect with your existing systems.**

| | | | |
|--|---|--|---|
|  <p>REAL TIME DATA</p> |  <p>CAPTURE MORE DATA</p> |  <p>FASTER ANALYZES</p> |  <p>IMMEDIATE ACTIONS</p> |
|--|---|--|---|

iOPS® collects data 24/7 and uploads to a military grade secure cloud service. From connection to transmission and storage, all data is fully encrypted with two-factor authentication. By monitoring OEE & downtime, manufacturers can pinpoint failures within the Aseptic filling production environment. The data can then be analyzed and viewed from different angles with user friendly dashboards. **The insights gained help to formulate improvement measures in your production line.**

iOPS® DETAIL DASHBOARDS

| OEE RATE | AVAILABILITY RATE | PERFORMANCE RATE | MACHINE MODE |
|---|---|---|--|
|  <p>A simple yet powerful metric to eliminate equipment losses and waste. See effectiveness on a daily, weekly or monthly level and compare where you are mainly spending that time.</p> <p>OEE Rate = Quality Rate * Availability Rate * Productivity Rate</p> |  <p>Ensure cycles are produced as planned, keeping the machine up and running, minimizing time losses. Determine how machine and operator time is spent, whether in production or waiting.</p> <p>Availability Rate = Cycle Time / (Cycle Time + Out of Cycle Time)</p> |  <p>Analyze the Performance Rate of the machine. View the uptime, downtime and speed loss during production, and how much capacity is utilized.</p> |  <p>Distribution View the distribution of the different machine modes.</p> <p>Machine Process Spot and analyze deviations in the consecutive machine modes.</p> |

Features & Benefits

- ✓ Analytic status reports
- ✓ Real time trending available
- ✓ Configurable alarms and triggers
- ✓ Powerful drill-down reporting
- ✓ Higher productivity at lower cost
- ✓ Initiate work orders for maintenance
- ✓ Central location of data in a single dashboard
- ✓ Predefined set of managerial reporting available

- ✓ Analysis on operational processes
- ✓ Operational benchmarking to compare performance over time



The main iOPS® dashboard contains high level key performance indicator statistics for measuring OEE, Availability, Productivity and more. Click on any of the information buttons on the main dashboard to drill down to detailed granular KPI data. All dashboards generate reports and filter by date ranges, with drill down by

predefined time periods or zoom on month, week and day. Detailed, color coded-graphs and charts enable the maintenance team to quickly view and analyze data and formulate improvement measures in the production line. Additional filters include the ability to sort by lot, batch, recipe, alarm, operator and customer.

iOPS® DETAIL DASHBOARDS

MTBF & MTTD + MTTR



Analyze the Mean Time Between Failures and the time it takes before the failure is diagnosed and resolved. With this insights are provided in order to reduce the failures and their durations.

ALARMS



The Alarm tabs allow maintenance to analyze warnings and stops, including the severity, frequency, duration, and steps per alarm. Compare the time impact of these alarms with a single click. Drill through for more details on that batch or alarm.

CLEANINGS & STERILIZATIONS



- ✓ View how many times the machine was in Cleaning or Sterilization mode.
- ✓ Compare expected durations of runs with actual (average) durations.
- ✓ Analyze where time can be saved to optimize machine performance.

PICK AND PLACE



- ✓ Get statistics and analyze the performance of the Pick and Place.
- ✓ Forecast how many bottles will be picked & placed
- ✓ Dive into the performance by assessing detailed information per row/lane



Sterideal® UHT Systems



Steritank



**AsepTec®
Linear Filler**

WE ARE YOUR SINGLE SOURCE FOR PROFITABLE PROCESSING & PACKAGING SOLUTIONS

JBT is a leading provider of integrated food processing solutions. From single machines to complete processing lines, we enhance value and capture quality, nutrition and taste in food products. With a local presence on six continents, JBT can quickly provide our customers and partners in the food processing industry with the know-how, service, and support needed to succeed in today's competitive marketplace.

JBT DIVERSIFIED FOOD & HEALTH

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