



tbDashboard

Create Instant Visibility into Key Manufacturing Metrics

tbDashboard provides the most comprehensive, easy-to-use reporting platform for production and quality management in the industry. Begin by configuring your own personal dashboard of concise, at-a-glance summaries of key manufacturing metrics. Explore detailed reports for more in-depth analysis, and review individual birth history records to identify root cause. Generate instant ROI by creating top-down visibility into manufacturing performance, proactively driving up quality and yields, and streamlining engineering tasks. This is the all-in-one reporting tool that has something for everyone, from VP to engineer, from operator to plant manager. And as a web-based application, the full power of these reports is accessible from any computer on your network.

Features & Benefits:

1. Quickly and easily gain insight into your production processes

- Generate powerful reports in seconds instead of hours
- Provide visibility to all levels within the organization
- Drill down from high level summaries to complete, individual part history in three clicks

2. Create your own personal dashboards to instantly track the KPIs that matter most to you

- Configure once, then get the latest data each time you refresh your web page
- At-a-glance reports provide instant feedback on critical metrics, with Red, Yellow, Green zones to indicate when KPIs are in line with targets
- Track first time yield, throughput, scrap and more
- Identify top failure modes, underperforming stations

3. Quickly drill into details using comprehensive library of production reports

- Manage your production line proactively, instead of reactively

- Accurately monitor production line performance, driving continuous process improvement
- Maximize yields by quickly identifying the cause of bottlenecks in manufacturing processes

4. Create your own charts and analysis to track custom metrics

- Create mathematical formulas to calculate your own custom production metrics
- Chart the results using bar charts, pie charts, histograms, 3D line charts and more

5. Save time by saving report configurations and setting your own personal preferences

- Share reports with colleagues by saving definition files or exporting to PDF, Excel
- Manage library of reports using Report Manager to list, edit, delete, or launch reports directly

6. Accessible to anyone, anywhere

- Web-based application provides complete access to quality data from any computer with a network connection
- No local software to install, all you need is your web browser – simply install the application on your web server, configure and go!
- Simple, intuitive interface makes it accessible to all levels within the organization, from technician to executive

Overview:

tbDashboard provides a unified reporting environment that supports three distinct levels of reports. At the highest level, the Dashboard tab provides high level, at-a-glance summaries of key manufacturing metrics. These mini-reports are automatically updated each time the web page is refreshed.

At the next level down are the Reports, each of which delivers aggregate data for a given KPI. Clickable elements launch related reports refined to focus on that specific dataset. Drill-downs expose sub-tables that contain the next level of detail, extending to lists of individual serial numbers. Serial numbers serve as active links to the final level, the Part History reports. This report enables the user to review every element of the birth history record stored in the database for that specific part, including all waveforms.

The Navigation between the three reporting levels is performed by selecting the appropriate tab at the top of the main panel. Productivity tools are accessed from the toolbar that is anchored just to the left of the main panel.

Reporting Options:

The Dashboard offers three categories of reports:





- i) Dashboards
- ii) Reports
- iii) Part History

Dashboard: The Dashboard tab provides a user-configurable environment for creating concise, at-a-glance summaries of key performance indicators. Configuration options include:

- Add or delete sub-tabs, configuring up to 8 columns of reports. Re-order reports on the tab by simply dragging and dropping
- Dashboard configurations are saved automatically with every change. Export configuration files to your local computer and share with other users
- Configure sizes of charts, and choose font sizes to suit your display
- All reports can be configured to focus on specific time/date ranges (this shift, today, this week, last 30 days), models, sections, stations, part parameters, results (pass, fail, no result, etc.) and/or op count.

In addition, the Dashboard offers the following powerful features:

- Click through from the dashboard to more detailed reports to progress from high level summary to low level detail in just a few clicks.
- “Marquee view” – this option allows the administrator to configure a live dashboard that is automatically updated based on a configurable timer. Designed for use as a public display board, whether on the plant floor or in the office, the Marquee view features a narrower top banner and removes the toolbar to maximize the available display area. Accessible only with an Administrator login.

CHART TYPE	CHART FEATURES	CHART OPTIONS	EXAMPLES
Needle Gauge	<ul style="list-style-type: none"> Numerical value prominently displayed at bottom of gauge Red, Yellow, Green zones for rapid visualization 	<ul style="list-style-type: none"> Upper/Lower bound of gauge range Minimum (upper bound of Red range) Target (upper bound of yellow range) 	
Pie Chart	Text labels indicate numerical breakdowns		
Bar Graph	<ul style="list-style-type: none"> Below target values highlighted in red – above target in green Limit the number of bars displayed to prevent overcrowded reports Sort columns in ascending or descending order 	Target value – displayed as solid green line	
Line Chart	Shading (select reports) provides visual emphasis of upward or downward trends	Target value – displayed as solid green line	

Reports:

Reports provide in-depth analysis of key performance indicators such as first time yield, failure modes, or defects and repairs. Drill-downs and embedded links between reports expose progressively greater and greater detail, enabling you to quickly isolate the source of failures or falling yields.

Each report is based on a flexible query definition that allows you to isolate a specific dataset from within the database.

Once a report is selected, report-specific settings allow you to configure the report to suit your needs. Clicking the Launch button brings up the report in a new window or tab, leaving your settings intact in the original window for easy editing, or ready to launch a different report on the same dataset. Both the query and report settings can be stored to a file for rapid re-generation of any report.

- First Time Yield:** Calculate First Time Yield (FTY) by station or Rolled Throughput Yield (RTY) across multiple stations.

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- First Time Yield is the number of unique parts without any failures (at that station), divided by the total number of unique parts through the same station.
- Rolled Throughput Yield is the product of the individual station FTY values.
- Toggle chart between FTY vs. station, and RTY vs. time, where RTY is calculated over a period of a day, week, or month, as selected by the user. Or compare yields between sections or part parameter values.

- Sort the main table by clicking on a column heading to quickly highlight which stations or operations are failing the most parts in any bin.
- Click on any bar in the chart to drill down to the Failure Pareto Report associated with that specific subset of records.

2. FTY Pareto: Generate a report that combines First Time Yield (FTY) and Failure/ Defect Pareto reports so you can view the overall FTY as a function of time, where the time range is broken into last 30 days binned by week, rolling 20 days (just one bin), and last 10 days binned by day. The report also contains a Failure/Defect Pareto table that lists the top 10 most common failed operations, where unique parts are totaled within each time bin. For each operation failure, you can list up to the top three most common defects, with the choice of detailing by Defect Code, Component and/ or Location.

3. Summary Report: Generate a table of operation yields, then drill down to a detailed summary table of feature statistics by clicking on an operation label. Select from a list of 13 statistical parameters, as well as embedded charts that provide quick, at-a-glance displays of feature trends. Filter by result (e.g.: Pass, Fail, No Op, No Result, etc.) or operation count (first, last, or a specific value).

4. Trend Browser: Drill down to individual operations or features and display trend chart vs. serial number or date-time stamp. Toggle between detailed serial number list, and statistical summary. Sort the detailed table by clicking on any table heading. Click on a serial number to bring up its Part History Report and view the related waveform.

5. Failure Pareto: Quickly generate a Pareto chart of the top 10 failure modes. Expand each category to reveal a list of affected serial numbers, then click on a serial number to drill down to its individual Part History Report to quickly isolate and identify production issues.

6. Defect Pareto: Create Pareto chart of top 10 defects, categorized by defect details. Drill-downs and links to individual serial numbers assist in rapid identification of primary sources of defects.

7. Failure Report: Review detailed listing of failed serial numbers with breakdown of individual failures by station and operation.

8. Analysis Grid: Create a spreadsheet-like table of feature or operation data that allows each user to create custom analysis and charts. Sort, apply filters or aggregate data (sum, average, minimum, maximum), add columns with mathematical formulas. Create custom charts, then simply click a button to add to your Dashboard.

9. Repair Traffic: Generate a detailed list of all serial numbers that have been repaired, specifying both the defects and the repairs.

Report Manager

The Report Manager provides a convenient utility for managing stored definition files created in the Reports or Dashboard tabs:

- load a stored report configuration into the “Reports” tab, ready to be edited and launched
- delete or rename report files
- Import or export files from the server directory to a local directory to enable you to share files with other users
- launch reports directly from the Report Manager file list
- Deactivating one or all configured panel using the Dashboard tab

Preferences

Each user can set their own personal preferences to facilitate rapid report generation. Available preferences include default configuration settings for the Reports and Dashboards and the refresh rate for the Marquee. The user can also configure default settings for the date range in the basic query, and display label and/or descriptions across all reports and panels for sections, stations, operations and waveforms.

FOR MORE INFORMATION

About TechBridge

TechBridge is the World's leading Product & Solutions Company. Data Center Applications, Collaboration and Real Time Communication. DC Management and Monitoring, Disaster Management, Security, Collaboration and Cloud. Its market-leading Network Modernization, Unified Communications, Mobility and Embedded Communications solutions enable customers to quickly capitalize on growing market segments and introduce differentiating products, applications and services. We are an expert and leader in Government Solutions, Smart City Solutions, Data Centers and Large Enterprises. We do custom applications also, as per the customer requirements.

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