

Manufacturing Dashboards

Real-Time Dashboards

Scytec DataXchange provides multiple real-time dashboards that can be viewed on TVs, display boards, PCs, tablets, and mobile devices. While many dashboard views are built into the application, end users can create their own personal views with an unlimited combination of charts, grids, lists, trends, and shop floor layouts making the dashboard infinitely expandable. In addition to all the flexibility of the built-in views, the DataXchange dashboards provide the ability to display notifications as well as view external systems side-by-side with live production data, expanding the system to be a true shop floor communication system.

Modern Manufacturing Needs

The impact of stoppages, change overs, unplanned downtimes, and other problems, without visibility, risks extending the downtime longer than it should be. Real-time manufacturing dashboards mitigate these problems by displaying key metrics as well as summary and detailed information immediately to shop floor personnel as well as to the management team. Manufacturing dashboards serve as a visual communication tool, turning machine data into actionable information. Dashboards must be real-time as well as having the capability of showing historical information for comparison purposes. Flexibility, expandability, and customization by each user is critical for success knowing that the use of data will evolve over time. The multiple dashboards DataXchange provides is the key to visualizing the data you need today, as well as growing with the system over time.

Horizontal		Laser		Lathe 1		Lathe 2		Horizontal	Laser	Lathe 1	Lathe 2
47% 53%	0% 0%	45% <mark>23%</mark>	0% 32%	39% <mark>4%</mark>	12% <mark>45%</mark>	49% <mark>22%</mark>	0% 29%	% 39 93 45 62 100 86 11 100	% 70 37 21 3 50 76 57 100	% 100 71 59 17 33 100 26 0	% 39 93 45 35 100 96 32
GX BS	S3% Unknown 47% Normal	25 - 27	44% Normal 32% No Material 23% Unknown 1% Low Override	85	37% Normal 37% No Material 3% Waiting for Oper 7% Setup 5% Reals 6% Other	275 275	49% Normal 23% Tooling 22% Unknown 6% Programming				
Specific Equipment Status Unknown Downtime	Specific Duration 0:33	Specific Equipment Status Normal Cycle	Specific Duration 0:26	Specific Equipment Status Breaks	Specific Duration 0:24	Specific Equipment Status Tooling	Specific Duration 0:06	Horizontal	Laser	Lathe 1	Lathe 2
Start Date Time 12/31 09:51 AM	Program Number 2245	Start Date Time 12/31 10:24 AM	Program Number LS9927	Start Date Time 12/31 10:24 AM	Program Number RT3905	Start Date Time 12/31 10:24 AM	Program Number CR5763	40 50 60 70	40 ⁵⁰ 60 70	40 50 60 70	40 50 60 70
Part Number 17414-02	Work Order Number 81034-1	Part Number 59771-02	Work Order Number 81129-3	Part Number 53671-03	Work Order Number 81025-1	Part Number 93771-07	Work Order Number 81009-2	20 80	20	20 80 90	20 80
№Н% 2	Utilization % 54	ррн % 48	Utilization % 37	PPH % 82	Utilization % 84	РРН % 56	Utilization % 59	0	0 100	0	

Machine Summary and Detail

Shift or Hourly Utilization

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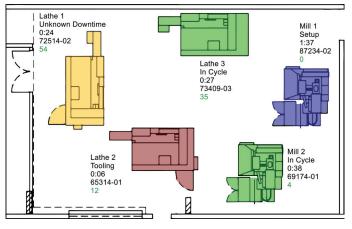




Visual Manufacturing

Managing by fact rather than hearsay or guesswork is the basis to identifying shop floor problems, resulting in less downtime, increased utilization, better quality, as well as countless other benefits. Real-time data gathered automatically from equipment, input from operators, as well as shift and job-based summary information displayed on TV screens throughout the manufacturing facility provides the information needed for the entire shop floor to communicate and work as a team.

The Benefits of Manufacturing Dashboards



Shop Floor Layout in RTV

Dashboards that provide real-time manufacturing information to staff at all levels, from operators to upper management, are imperative because the information presented on the dashboards enables all stakeholders to gain a greater understanding of the business. In terms of benefits, the number one thing to do with data from a machine monitoring system to get value, is to expose the data to everyone.

- Accurate data shared with all shop floor personnel levels.
- Improved communication.
- Information silos are avoided.
- Incorporate data easily into part of your daily routine.
- Changing the culture of the shop floor.
- Clean visual presentation that can access need-to-know information.
- Encouraging teamwork.
- Eliminate bias from manually collected data.



A dashboard configured to show utilization against targets, parts per hour against targets, machines currently in a downtime, and machine alarm detail.

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