

SmartParts Monitoring

Real-Time monitoring system that provides a central display of all machines' status

The ShopView is a central "heads up display" is the command center for your entire drill room. The web-based status view instantly tells you and your drill operators where the trouble is... and where it isn't. One glance at the display, and your operators know right where to go to keep your drilling and routing machines running.

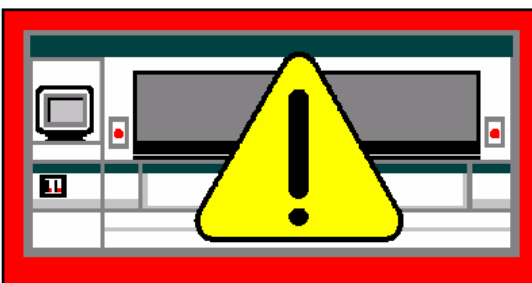
- Runs on any 32-bit Windows PC
- Reports to a standard web browser (Netscape or Internet Explorer)
- Instant notifications (pager or email)
- Uses either machine software or monitoring hardware (sold separate)
- Update every few seconds

Provide summary reports

- Real-Time Status report
- Utilization reports
- Tracking reports
- Error reports
- Production reports

Zoom In

- With the "zoom in" capabilities a supervisor can pick a machine and see the state code, the error code & how long it has been in the current state or error.



Hitachi 10D
Job: T8016
Machine Status: Stopped during load
Time at current state: 00:00:57
Error: USED TOOL TOO HIGH



Machine	Job	Time	Status
Hitachi 90		00:01:15	Warning
Excellon Mark 6	T2938	00:00:05	Running
Hitachi 100		00:00:35	Running
Hitachi 10D		00:01:15	Running
Century 2001		00:00:45	Warning
Hitachi 20	T6867	281409:35:44	Running
Hitachi 20	T7247	00:00:35	Running
Hitachi 10D	T1135	00:00:05	Running
Excellon CNC7		00:01:15	Warning

ShopView will free your operators from having to watch running machines; they can spend their time more productively. They can prepare the coming loads, load tool cassettes, and perform all of the other "care and feeding" tasks of drilling and routing, without fear that they'll overlook that stopped machine on the far side of the drill room. That saves time and money, especially in times when fewer operators must run more machines.

Cost Justification: You can't afford not to have it.

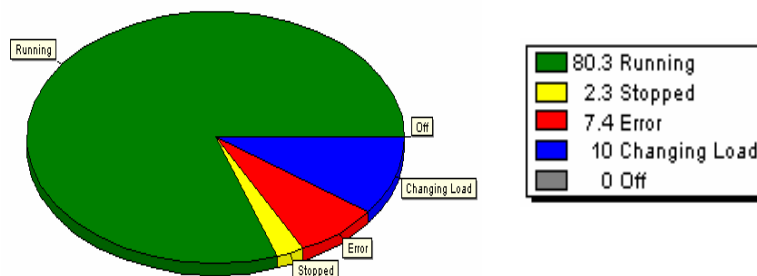
In our studies, the ShopView system reduces your machine stop time by a minimum of fifteen minutes a day. It also frees up over an hour a day of each machine operator's time, so they can do other work. In a three-shift operation, the daily cost savings is worth about \$40 per machine, and the three hours of added operator labor availability is worth about \$60.

Even in an eight-machine shop, the cost savings of \$380 per day will pay for the complete system in less than four months. So this system is an investment which pays about a 300% return in the first year! That's why companies invest in FASTechnologies products like the ShopView system, especially in a difficult market.

SmartParts Reports

Summary Reports

SmartParts will record events reported by the machine controller. From this recorded history of machine events, the following reports will be generated and distributed in HTML form over the company Ethernet.



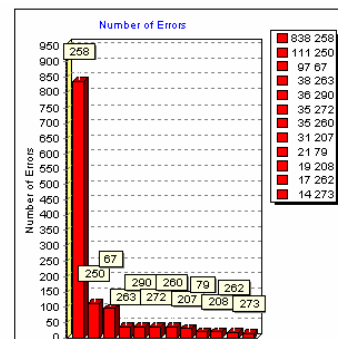
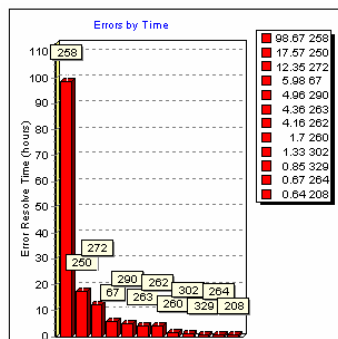
Tracking report

Reports will be produced by Work Order or Tool Number. They will show where and when the panels were drilled, and the time expended in drilling.

Errors report

Reports will provide summaries of errors, ordered by error type or machine number.

Idle time accruing to each error type will be presented. Selectable time breakdowns will be by hour, shift, day, week, and month.



Errors sorted by most time:

Time	Err#	Message
98:40:15	258	TOOL DIAMETER ERROR, DIAG.181
17:34:10	250	LIMIT OF DRILL LIFE
12:21:00	272	DRILL BIT(S) BROKEN (P.F. TOOL
5:58:34	67	WAITING CYCLE START
4:57:40	290	TOOL CHUCK DOWN POS. ERROR
4:21:52	263	TOOL HEIGHT TOO HIGH
4:09:30	262	TOOL DEPOSIT ERROR
1:42:09	260	TOOL HEIGHT TOO LOW
1:20:01	302	LOW AIR PRESSURE
0:50:44	329	WAITING CYCLE START
0:40:28	264	USED TOOL TOO HIGH
0:38:29	208	END OF "MACHINE REVERSE"

Errors sorted by most occurrences:

#	Err#	Message
838	258	TOOL DIAMETER ERROR, DIAG.181
111	250	LIMIT OF DRILL LIFE
97	67	WAITING CYCLE START
38	263	TOOL HEIGHT TOO HIGH
36	290	TOOL CHUCK DOWN POS. ERROR
35	272	TOOL HEIGHT TOO LOW
35	260	TOOL DEPOSIT ERROR
31	207	TOP OF "MACHINE REVERSE"
21	79	WAITING CYCLE START
19	208	END OF "MACHINE REVERSE"
17	262	TOOL DEPOSIT ERROR
14	273	TOOL REMAINS IN COLLET or P.F.

ShopView Notifications



DRILL #12 END OF LOAD
DRILL #17 STOPPED: TOOL STUCK

Automated Pager Alarms Reduce Wasted Time

In the traditional drill room, the operators spend much of their time walking around, checking to see if any machines have stopped. That's a waste of time, because every time an operator checks a machine and it's still running, he's accomplished nothing. No added value, zero profit.



FASTechnologies, Corp.
 Representative/Distributor for: Scandinavia and Finland, Baltic Area
 BITA ELEKTRONIK SVENSKA AB
 POB 3434, SE-10368 STOCKHOLM, Sweden
 Ph. +46 (8) 319000, Fx. +46 (8) 326064, e-mail: info@bita.se, www.bita.se