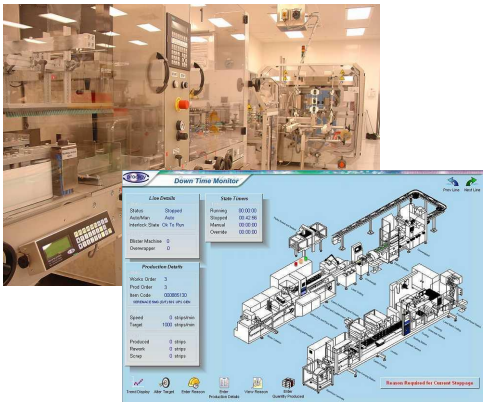
Turnkey Systems – Packaging Line Monitoring



Key Benefits

- Optimises OEE, throughput and profits
- Eliminates data inaccuracies
- Frees staff to do more value added work
- Data via Ethernet eliminates the need for cabling in clean room areas

Eye to the future | Window on the world

Summary

OEE reporting and downtime monitoring system installed on eight pharmaceutical packaging lines. Working to improve OEE to world class standards the client found that manual data collection and reporting did not provide the accuracy or availability of data required to meet their target.

Each packaging line comprises four machines including a blister machine, carton machine, over-wrapper and case sealer. Keypad terminals adjacent to each line collect data from the machines and allow operators to input and view information. Data is sent from the terminals via the existing Ethernet LAN to a central PC.

An overview display shows key performance indicators including OEE and the status of all machines at a glance. For more detailed information the user can click on the overview to switch to individual displays for each line or machine.

The system continuously monitors all machines and records downtime. For long duration stoppages (typically over 60 seconds) the operator selects a reason for the stoppage from a multi-line scroll menu on the terminals. Shorter duration stoppages are not assigned a reason but the downtime is still recorded and accumulated as short stoppage time. Multiple downtime reasons can be assigned sequentially to any stoppage and comments can be added to downtime events for advanced analysis.

Machines are interlocked after two long stoppages have occurred. This stops the machine from being restarted until a valid reason has been selected for both stoppages. This ensures that downtime reasons are recorded and reduces delays often associated with interlocking after every stoppage.

Tabular and graphical reports detailing downtime, OEE, production and scrap counts are generated per shift. Reports and real-time and historical trends can be viewed on demand. Analysis of data can be against any time period, line, operator, product etc.

Equipment Used

- Intel based Pentium PC running Microsoft Windows XP
- 28 x DTMO3 Operator terminals
- 8 x Comtrol Rocket Port Ethernet to serial hubs

If you would like to find out more about this application, please contact the sales office who will put you in touch with the original Systems Integrator.