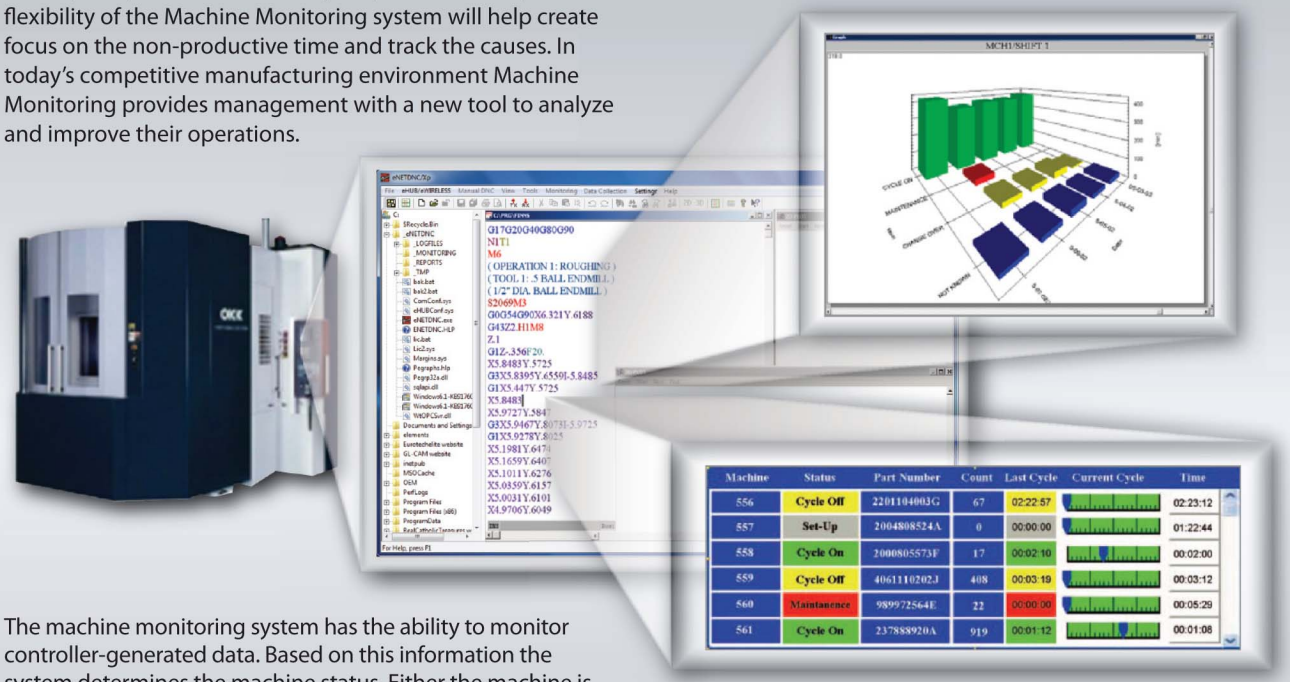
# Better Data! Better Decisions!
# eNETDNC Machine Monitoring

## Real-time Machine Monitoring, Real World Decisions/Real World Data.

The eNETDNC machine monitoring system has the ability to collect data directly from the CNC machine. Based on this information the system determines the machine status and reports data real time throughout the organization. The Machine Monitoring Dashboard displays the status of each machine on the shop floor. This allows managers to react to problems as they occur rather than attempting to diagnose and explain problems based on post production reeports. The flexibility of the Machine Monitoring system will help create focus on the non-productive time and track the causes. In today's competitive manufacturing environment Machine Monitoring provides management with a new tool to analyze and improve their operations.

By monitoring when the spindle is running and how many times the program cycle started, management is able to gain valuable information into machine utilization. This information is independent of the shop floor data entry and use of the machine monitoring system is sure to increase the integrity of your manufacturing data.

The graphical display allows for easy review of data. For more sophisticated data analysis the information can be uploaded into Microsoft Excel or similar products. Finally, data collected via the machine monitoring system can be used directly with your shop management software package again increasing the accuracy of your manufacturing data. Machine Monitoring provides management with a new tool to analyze and improve their operations.




eNETDNC Machine Monitoring Dashboard displays real-time machine status.

The machine monitoring system has the ability to monitor controller-generated data. Based on this information the system determines the machine status. Either the machine is active and running production parts, it is in the set-up mode or the machine is idle. If the machine is idle operators are required to report why the machine is idle. This portion of the monitoring system allows companies to configure the system to track data most relevant to their operation. The flexibility of the eNET system will help create focus on the nonproduction time and track the causes.

The monitoring set-up screen allows companies to select items critical to their operations. The eNET system will allow companies to quantify the amount of time being lost, investigate the reason for the losses and finally put solutions in place that will eliminate these problems in the future.

The machine-monitoring feature provides instant status of any CNC machine in the shop and allows for collection of real-time production data directly from the machine controls. Using the DNC connection to the machine tool and a special monitoring board, the eNET system is able to monitor the CNC control activity and provide production relevant information about the machine operation.

## Using eNETDNC Machine Monitoring, companies can measure and track the following information:

- Spindle on time
- True cycle time
- Accurate part counts
- Set-up time
- Machine downtime due to quality, engineering or material issues
- Preventative maintenance Time
- Tool breakage
- Unscheduled maintenance time
- Overall equipment effectiveness (OEE)