IMPAX®

- Improve Efficiency
- Reduce Scrap
- Monitor Production
- Improve Setup Time
- Identify Excessive Downtime
- Manage Maintenance Cycles
- Improve Tool Utilization
- Track Job Status

Closer to the Shop Floor with IMPAX TSS

Any production monitoring system is only as good as the information it gathers. The IMPAX Time Saver System (TSS) combines state-of-the-art touch screen technology with powerful software to track production and downtime for all factory processes. Using TSS technology means all machine data is tracked, including data that was previously only estimated. Basic information such as production counts and machine speed (RPM) are tracked along with machine uptime and downtime. Downtime logs include the reasons for downtime, as entered by operators using the touch-screen surface. Data for jobs, parts, and operator sessions is also captured.

TSS monitors feature touch-screen interfaces available in 4", 6", and 8" sizes. These monitors can observe any machine process, and display real-time production totals, machine efficiencies, and accumulated machine uptime and downtime. Users can easily navigate the system to view the machine's daily uptime and downtime minutes by shift; production totals by shift; order, tool, and maintenance counters; machine speeds and efficiencies; downtime occurrences; total minutes per downtime, and more.

The TSS-8, with a vivid 8" screen, also has the ability to display PDF files and other documents. CAD drawings, setup instructions, and part schematics can be viewed by machine operators right at the machine. Documents distributed this way are easy to open, free to distribute, and are accessible at any TSS unit.

Once TSS monitors collect critical process data from machines, the data can be transferred to office computers for further evaluation, using TSS-NET. The TSS-NET software can process the data to find parts that tend to be profitable, machines that run at high efficiencies, and operators with good records. Such trends can be isolated, and used as prototypes for more profitable orders and more efficient machines in the future. Furthermore, TSS-NET can identify any chronic problems and rank them according to their severity. This information can be used to ensure the appropriate machine repairs and operator training take place to eliminate the problems.

TSS FEATURES

- **Uptime Minutes**
- **Downtime Minutes**
- **Operator Response Times**
- **Downtime Reasons –Up to 64**
- **Downtime Log – Dates and Times**
- **Operating Efficiencies**
- **Pending Parts - Up to 4**
- **Machine, Operator, Part Histories**
- **Order Counter**
- **Tool Usage Counter (9)**
- **Maintenance Item Counters (9)**
- **Production Counts**
- **RPM and Parts-Per-Minute Rates**
- **OEE Efficiency Data**
- **Scrap Counts**

Collecting complete and accurate data right at the machine, along with using software that makes the data immediately available to managers, allows optimum process control and profitability.

For more information see:
www.impaxtss.com
Or call us at:
630-393-4777

IMPAX TSS-NET Software

IMPAX TSS-NET links IMPAX TSS-4, TSS-6, TSS-8 and TSS units to a personal computer or network, for data collection and shop floor management. This system enables the user to get up-to-the-minute information about the shop floor machinery and fine-tune the manufacturing process as needed, resulting in increased productivity and improved quality.
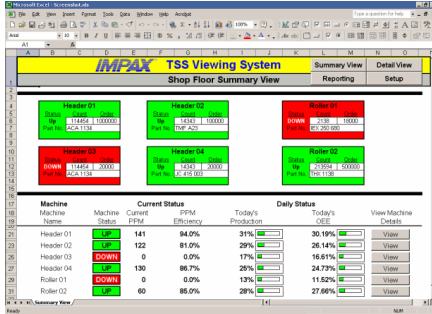
VIEWING STATUS

TSS-NET's viewing mode gives live tracking of each machine's status, each operator's status, and each part's status at any computer with the software. Real-time shop floor information is shown, including:

- Machine Name and Status
- Parts Made Count
- Tool Usage Counts
- Maintenance Task Counts
- Speed of Production (PPM) and Efficiency
- Uptime and Downtime Minutes by Shift
- Response Times to Machine Faults by Shift
- Downtime Reasons: Occurrences and Minutes
- Current Job Information
- Operating Efficiencies and Effectiveness (OEE)
- Production Potential
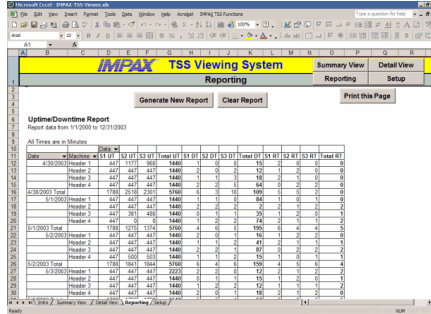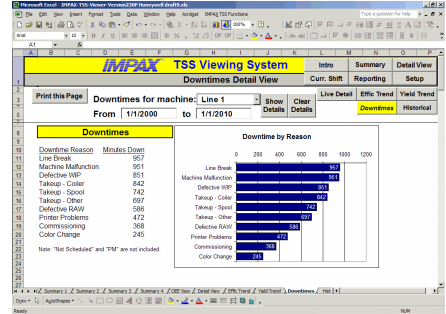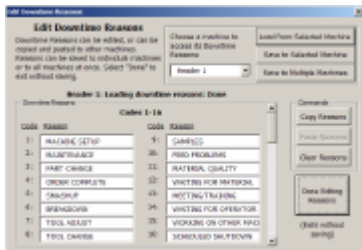
DATA COLLECTION

TSS-NET supports automatic data collection. Machine data and the downtime log are collected daily, and part and operator data are collected as parts are completed and operators log in. Data can be collected automatically across an Ethernet network, or by directly connecting to each TSS unit once daily. After collection, the data can be analyzed and reviewed via the TSS-NET program.

This data is stored in a comma-delimited format so that it can be imported into Excel or other programs for further analysis and evaluation. Data may also be streamed to other database programs, depending on the required formats.

REPORTING

TSS-NET's viewing mode includes basic printing functionality, for easy report generation.

TSS-NET also includes a variety of customizable reports, to view historical data logs, and create aggregate reports.

Alternatively, users can import the saved data files into any database/reporting program. The user then has total flexibility to do further analysis and report writing.

If TSS data is kept on a file server or network drive, the data is also available to all users on the network.

SYSTEM SETUP

TSS-NET's setup mode allows entry and editing of:
- Machine Names
- Downtime Reasons
- Clock Settings and Daily Schedules
- Ideal Running Rates
- Pending Part Information
- Data Collection Settings
- Message Logging Settings