IMPAX®

TIME SAVER SYSTEMS

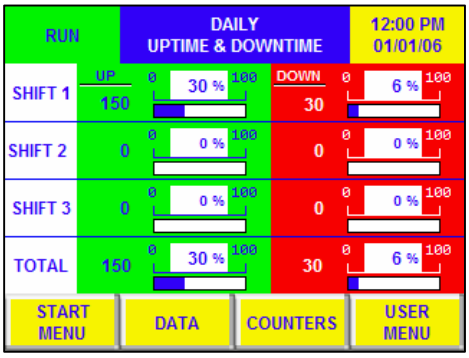
IMPAX TSS Screens & Features - Data

The IMPAX Time Saver System provides many features designed to increase productivity, save time, and help your shop run more efficiently. TSS monitors automatically collect information on production totals, machine efficiency, and accumulated machine uptime and downtime. All occurrences of downtime, and the corresponding reasons, are tracked and archived. This document gives an overview of the TSS's main features.

Uptime/Downtime Minutes

Tracks daily uptime and downtime minutes for each shift

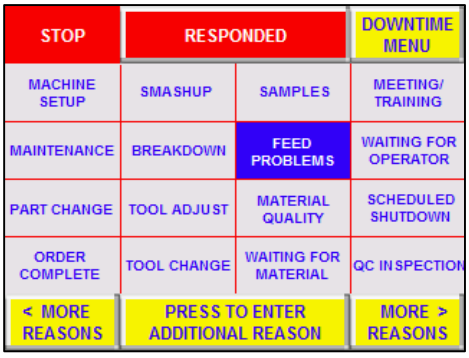
- Automatically tracks uptime/downtime data, resulting in a true picture of machine usage, instead of estimates
- Identifies previously-unreported lost time or idle periods
- Provides timely and accurate data for productivity initiatives



64 Downtime Reasons

Tracks daily occurrences and durations for each downtime reason

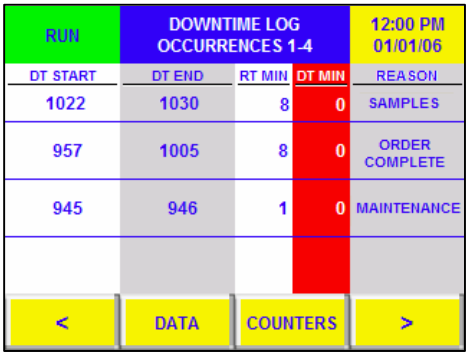
- Tracks reasons for downtime electronically, eliminating the need for operator self-reporting or data entry
- Identifies part, tooling, material, and operator issues
- Provides cost-justification for upgrades and other corrective actions
- Helps focus managers and operators on problems causing the most downtime



Downtime Occurrence Log

Tracks each downtime occurrence's date and time, response time, downtime, and reason

- Identifies common time-consuming problems, so that bottleneck issues can be addressed
- Identifies insufficient manpower situations, by tracking operator response time
- Provides operators and managers with information of recent problems or situations



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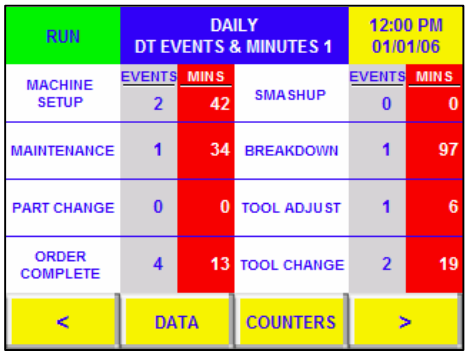
Downtime Events & Minutes

Tracks the number of daily occurrences and total minutes for each downtime reason

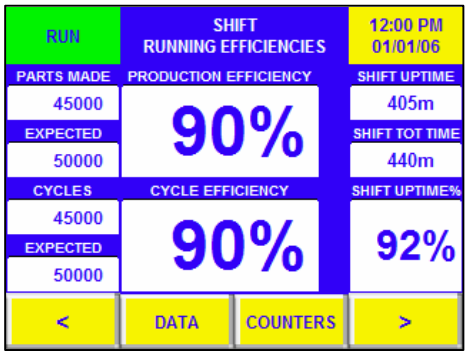
- Helps managers and operators identify their most time consuming downtime reasons
- Helps managers and operators identify their most common downtime reasons
- Provides accurate times for each downtime reason
- Shows manager and operators where specific improvement efforts could be spent



Efficiencies

Tracks real time efficiencies based on production, feed, time

- Helps operators reach a productivity target, and know when a process is running poorly
- Identifies machine problems in real-time, resulting in increased productivity
- Identifies feed issues on certain machines
- Shows productivity loss due to speed, feed, or downtime
- Motivates operators to work more efficiently



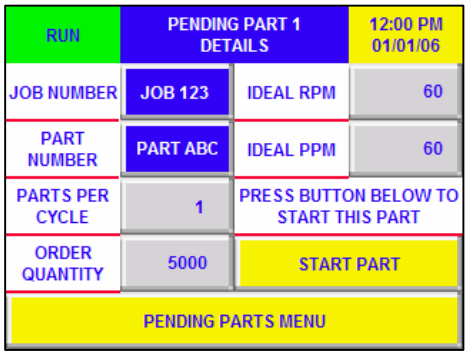
Part and Operator Information

Tracks job number, part number, operator ID, and scrap

- Provides optimum running rates to the operator along with other useful information
- Provides up to 4 pending part jobs for the operator to begin, saving data entry time
- Tracks uptime and downtime by part, job, and operator
- Tracks response times by operator
- Tracks production counts and efficiencies by part, by job, and by operator

Pending Parts

- Identifies upcoming parts to the operator
- Eliminates operator entry of most job information
- Provides optimum machine speeds for the part
- Can be directly loaded from a manufacturing system or entered by the production scheduler



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IMPAX TSS Screens & Features - Counts

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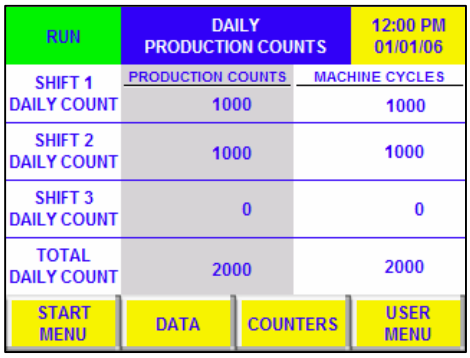
Production Counts

Tracks daily production counts for each shift and the day's total

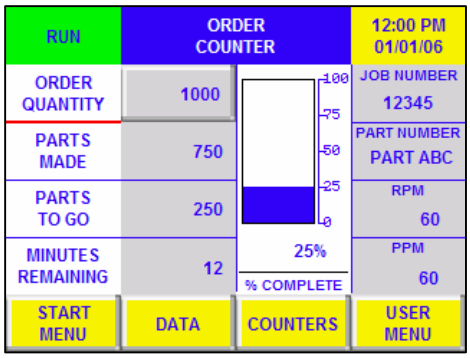
- Provides true production counts without weighing, hand-counting, or other human intervention
- Automatically provides accurate counts for each shift and eliminates part count paperwork
- Parts made during a particular shift are always credited to that shift's counts for the machine and session



Order Counter

Tracks order quantity, parts made, parts-to-go, minutes remaining, RPM, and PPM

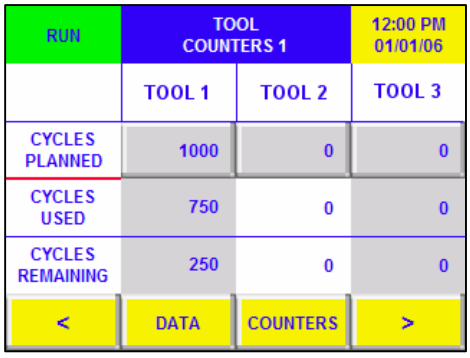
- Eliminates job overruns
- Encourages operators to prepare upcoming jobs in advance, reducing downtime between jobs
- Provides accurate machine speed and shows when a machine is running too slow or fast
- Provides accurate part rates and shows operator part rate inconsistencies
- Provides managers with expected time of job completion



Tool Counters

Tracks the planned cycles, actual cycles, remaining cycles for each of nine tools

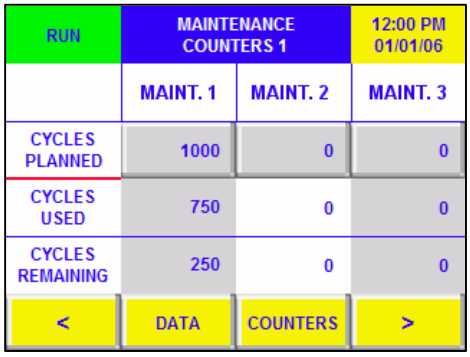
- Reveal each tool's true life
- Inform the operator of expected life of each tool
- Encourages the use of each tool to its full life
- Proves cost justifications for tooling purchases, repairs, and design changes
- Alerts tool room when new tools are needed at machines and alerts operator when to change tool



Maintenance Counters

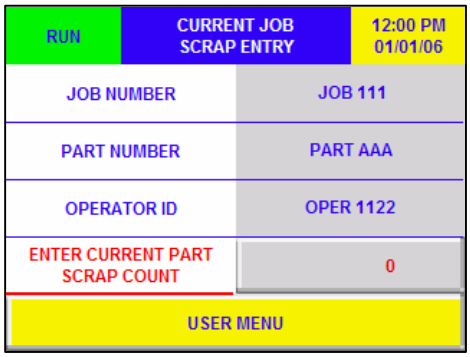
Tracks the planned cycles, actual cycles, remaining cycles for each of nine maintenance items

- Alerts operators and maintenance personnel to upcoming service issues
- Allows PM and service to be scheduled when they are needed , not on a weekly/monthly schedule that doesn't reflect machine usage
- Encourages the correct order rate and parts needed in spare parts inventories
- Allows the best use of maintenance personnel



Part Scrap Counter

- Identifies material waste
- Tracks scrap generation by job, identifying parts that cause excessive waste
- Justifies process improvement to reduce scrap
- Is used in OEE calculations



Machine data by day, week, and month

Tracks counts, uptime, and downtime for each day, week, and month historically

- Tracks historical data and displays current day, week, and month
- Identifies trends in performance and production
- Shows which machines run well and which may need service