

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

STOP	RESPO	DOWNTIME MENU	
MACHINE SETUP	SMASHUP SAMPLES		MEETING/ TRAINING
MAINTENANCE	BREAKDOWN	WAITING FOR OPERATOR	
PART CHANGE	TOOL ADJUST	SCHEDULED SHUTDOWN	
ORDER COMPLETE	TOOL CHANGE	QC INSPECTION	
< MORE REASONS	PRESS T ADDITIONA	MORE > REASONS	

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

RUN	DOWNT OCCURRE	12:00 PM 01/01/06		
DT START	DT END	RT MIN	DT MIN	REASON
1022	1030	8	0	SAMPLES
957	1005	8	0	ORDER COMPLETE
945	946	1 0		MAINTENANCE
<	DATA	COUNTERS		>



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

RUN	DT E\	DA ENTS 8	12:00 PM 01/01/06		
MACHINE SETUP	EVENTS 2	MINS 42	SMASHUP	EVENTS 0	MINS 0
MAINTENANCE	1	34	BREAKDOWN	1	97
PART CHANGE	0	0	TOOL ADJUST	1	6
ORDER COMPLETE	4	13	TOOL CHANGE	2	19
<	DATA		COUNTERS	>	-

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

RUN	SHIFT RUNNING EFFICIENCIES		12:00 PM 01/01/06
PARTS MADE	PRODUCTION E	FFICIENCY	SHIFT UPTIME
45000	90%		405m
EXPECTED			SHIFT TOT TIME
50000			440m
CYCLES	CYCLE EFFI	CIENCY	SHIFT UPTIME%
45000	0.0	0/	
EXPECTED	90%		92%
50000		, , ,	
<	DATA	COUNTER	>

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

RUN	PART AND (HISTORY MI	12:00 PM 01/01/06		
PART	PART NUMBER	START TIME	START DATE	
BUTTON	OPERATOR ID	END TIME	END DATE	
CURRENT	PART B	12:30	1 / 1	
SESSION	OPER 2	OPER 2 (STILL AC		
1ST PRIOR	PART A	12:00	1 / 1	
SESSION	OPER 2	12:30	1 / 1	
2ND PRIOR	PART A	1 / 1		
SESSION	OPER 1	1 / 1		
<	HISTOR	>		

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

RUN	PENDING Det	12:00 PM 01/01/06		
JOB NUMBER	JOB 123	IDEAL RPM 60		
PART NUMBER	PART ABC	IDEAL PPM 60		
PARTS PER CYCLE 1 PRESS BUTTON BELOW TO START THIS PART				
ORDER QUANTITY 5000 START PART				
PENDING PARTS MENU				



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

RUN	DAILY PRODUCTION COUNTS			12:00 PM 01/01/06
SHIFT 1	PRODUCTION COUNTS		MACHINE CYCLES	
DAILY COUNT	100	00		1000
SHIFT 2 DAILY COUNT	1000		1000	
SHIFT 3 DAILY COUNT	0			0
TOTAL DAILY COUNT	2000			2000
START MENU	DATA	DATA		USER MENU

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

ORDER QUANTITY 1000 250 12345	RUN	ORI COU	12:00 PM 01/01/06	
PART S MADE 750 50 PART ABC PARTS TO GO 250 250 RPM 60 MINUTES REMAINING 12 25% PPM 60 START W COMPLETE 60		1000		
PARTS TO GO MINUTES REMAINING 12 **COMPLETE* **COMPLE		750		PART NUMBER PART ABC
REMAINING 12 % COMPLETE 60		250	-25 -0	
START DATA COUNTERS USER		12		
MENU DATA COUNTERS MENU		DATA	COUNTERS	

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

RUN	TO COUNT	12:00 PM 01/01/06	
	T00L 1 T00L 2		T00L 3
CYCLES PLANNED	1000	0	0
CYCLES USED	750	0	0
CYCLES REMAINING	250	0	0
<	DATA	COUNTERS	>



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

RUN	MAINTE COUNT	12:00 PM 01/01/06	
	MAINT. 1 MAINT. 2		MAINT. 3
CYCLES PLANNED	1000	0	0
CYCLES USED	750	0	0
CYCLES REMAINING	250	0	0
<	DATA	COUNTERS	>

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

RUN	CURRENT JOB SCRAP ENTRY		12:00 PM 01/01/06
JOB NUMBER		JOB 111	
PART NUMBER		PART AAA	
OPERATOR ID		OPER 1122	
ENTER CURI SCRAP			0
USER MENU			

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

