

ProCon

real-time production monitoring system

● About Us

Crystal Consultancy Services Private Limited (CCS) is a progressive customer oriented Information Technology solution provider based out at chennai. We provide state-of-the-art products, and services to our clients, through our powerful synergy of professionals, processes and technologies.

● ProCon System

Crystal presents **ProCon**, a real-time production monitoring system, built around coded tag and tag reader. It is a robust, state-of-the-art, revolutionary technology that promises to take the pain out of production management.

ProCon system collects production information in real-time and disseminate quickly and accurately to production management team to identify and react to the problems in the production line instantaneously.

● Tag Reader

Tag readers capture the punches and sends the information to Data Capturing PC for updation. The tag reader displays the Operator's name, Target, Actual production and Efficiency of the operator logged in. Operator can request for a Mechanic or Supervisor by pressing the appropriate keys.

● Coded Tag

The coded tag is a computer chip enclosed in a stainless steel can that proves its identity by a globally unique serial number. This tag is used to identify Operators, Supervisors, Mechanics and Bundles.

● How ProCon works?

- ❖ A tag reader is attached to every sewing machine in the sewing line.
- ❖ All the tag readers in the line are networked and connected to a Data Capturing PC.
- ❖ A coded tag is tied to every individual bundle and issued to sewing line for production.
- ❖ This tag travels along with the bundle in the sewing line from start operation to final operation.
- ❖ Operators prior to start sewing, will punch the tag in the reader to record the operation start time.
- ❖ On completion of bundle, will punch the same tag in the reader to record the operation end time.
- ❖ Data Capturing PC receive the punches from the tag readers at all stages of operations and updates the production information in real time.



Tag Reader



Coded Tag



Workstation with Tag Reader



Crystal Consultancy Services Private Limited

Digital Assistance to Maximize Enterprise Productivity

● Bottleneck Display Board

The display board displays

- ❖ Daily target, actual output and efficiency of the sewing line or section
- ❖ User defined bottlenecks viz. Machine Breakdown, Operator Idle Time, Alteration Time, Work-In-Progress, Efficiencies are identified and displayed with the workstation numbers by a different color LED bulb as and when they occur.
- ❖ User can prioritize bottleneck conditions that are displayed on the board.



Bottleneck Display Board

● QC Reader

A QC Reader is attached to every checker table in the sewing line.

The checker inspects the bundle and records the status of the bundle viz, Rework / Rejection / QC Passed pieces with appropriate defect codes.

- ❖ In case of Rework the bundle goes back to the concerned operator.
- ❖ In case of Rejection entered pieces are removed from the bundle.
- ❖ All reports pertaining to QC are generated by the system.



QC Reader

● Key features

- ❖ Centralized on-line production monitoring tool.
- ❖ Provides efficiencies of machines, operators and processes.
- ❖ Generates skill matrix of the operators / operations.
- ❖ Gathers off standard time viz. Breakdown, Idle and Rework Time.
- ❖ State-of-the-art networking technology provides 100 % data reliability.
- ❖ Provides instant and dynamic reports / graphs at all levels.
- ❖ Generates alerts for exceptional situations via email or SMS.
- ❖ Provides data to communicate or interface with other application systems.

● KeyBenefits

- ❖ Increased productivity
- ❖ Improved throughput time
- ❖ Decreased Work In Progress [WIP]
- ❖ Efficient line balancing
- ❖ Decreased downtime
- ❖ Improved in-line / end-line quality control
- ❖ Accurate payment to operators
- ❖ Decreased administration costs

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