

# Factory Floor Solutions

## Downtime



### *Pull Manufacturing – Downtime Monitoring*

#### *Customer*

A manufacturer for medical instruments requested that we implement a downtime monitoring system on their pull manufacturing line.

#### *Performance Information*

- Line Downtime Capture by Hour / Shift
- Quality Performance – [Total Parts Tested / Qty Rejected ]
- Completed Assemblies Output
- Changeover Actual Time vs. Standard Option

#### *Reporting – Instrument Assembly Line*

- Real Time - LCD Display Screen by Assembler & Total
  - Downtime Information by Cause
  - Takt Time vs Actual
  - Cycle Time for Assembly w/ Standard Comparison
  - Total Production Output Vs Target
- Production Output Performance by Hour & Shift & Week
  - Trend Charts
  - Comparison Chart
- Assembly Rejection by Reason Code –Prato Chart
  - Trend Charts
  - Comparison Chart

#### *Instrument Assembly Line*

##### Performance Output

- Unscheduled Line Downtime by Reason Code
- Line Qty Output by P/N
- Change Over Time

*Downtime will be captured for both scheduled and unscheduled downtime, but it completely accounts for the total shift period time- hour worked, downtime, change over etc.*

## *Data Capture - Capture of Line Down Status*

- Each operator – has the capability to assign a downtime reason
- Initial Reasons: Fixture by Assembly Station, Material, Engineering, Work Instructions, Change Over [These can be expanded or reduced as necessary]

## *Data Capture – Counts*

Note: Counts will be taken off current existing count devices.  
*The Data Input modules will receive an input.*

### Operator

Operator hit a switch or button for each completed part as it occurs presently

### Production Assembly # & P/N

Desktop Input Screen

Desktop input screen would record production information. This would be done by the line lead or supervisor at the start of a production activity

### Data Capture - Capture Line Performance Counts – 3 Areas

- End of Line Counts
- Counts – Beginning / Middle /End
- Counts – specific areas of the line
- *Also at tester – see below*

## *Capturing Tester Activity Performance - Tested Parts*

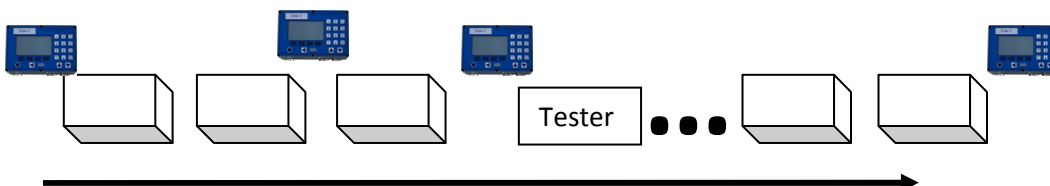
- Total part tested – Need a count input from tester
- Total part rejected

## *Proposed VT2000 System Overview*

Instrument Pull Assembly Line

*4 Points of Capture Performance Activity*

*Assembly Stations*



## *Reports*

Custom reports – tabular & graphs will be quoted separately depending upon requirements.

VersaCall Performance Intelligence Reports are also available.