

# On Line Monitoring System for Weaving

Looms | Preparatory | Processing | Fabric Inspection



**Weave Profits Into Your Business**

Trusted by leading mills world wide – in Over 400 Mills on over 30000 Machines



## About Us

Since its inception in 1993, having installations in all over India, has installed the system in Indonesia, Rwanda, Mauritius, Bangladesh, Thailand, Madagascar, Egypt, Mexico, Ecuador, Argentina, Colombia, Nigeria, Turkey, Malaysia, USA and the list goes on.

## Monitor Performance & Enhance Productivity using DATALOG

Productivity is assured by continuous performance of every single Loom in the mill. Unwanted stoppages can throw a spanner in the works and drastically impact production schedules. That is why it is imperative to invest in DATALOG On Line Monitoring System for Looms to monitor Weaving Shed 24 X 7.

Datalog system facilitates continuous monitoring of each Loom individually & collectively. Data is processed and useful reports are generated on web based software which helps in seamless running of operations, contributing to better productivity which translates into higher **PROFITS**.

## Configuration of DATALOG Installation



## Products | Range | Options of DATALOG On Line Monitoring System for Weaving

**Looms (Any Type / Any Make / Any Model / Manufacturing Any Product)**

**Weaving Preparatory (Warping, Sizing, Beaming)**

**Processing (Dyeing, Finishing, etc.,)**

- Production, Stoppage & Efficiency (Machine Wise)
- Air Consumption (Machine wise, Group Wise, Line Wise, at Compressor) - Optional
- Power (Machine Wise, DB wise, SSB Wise, Lighting Load Wise, at Power House, Humidification Plant, Compressor) - Optional
- Humidity & Temperature (At various points inside the shed) - Optional
- Spare Parts Failure Analysis (Machine Wise)

## Fabric Inspection System for Inspection Tables



## Benefits of DATALOG

### Production, Stoppage & Efficiency Monitoring

- Integrated information of all types of looms in one software
- Provision to view all information on Machine Terminal fitted on every Loom
- Long Stop reason can be entered on the loom
- Web based software & hence easy to access the data from within or outside the mill (during travel)
- Mobile Version of Software available
- Automatic Weaver Planning
- Reduce Machine Down Time by continuous monitoring
- Continuous Monitoring of Breaks per Hour & Minutes per Stop
  - for Warp, Weft and other stops
- Compare Machines running with same Style to identify low performing machine and finetune
- Compare Weavers to identify low performing weaver and train for better result
- Efficiency Trend Graph to analyse Loom behaviour and finetune for better Efficiency
- Stop Diagram to find out repeated stops, too many stops and finetune the Loom
- Bring Low performing Loom at par with the best
- Exception Reports can be called for any parameter to analyse the weak areas
- Snap Study on every parameter
- Macro to Micro Analysis of any parameter can be called for long term analysis (Year – Month – Day)
- Easy Interface with any ERP
- Beam Planning Reports, Un Assigned Beam Reports are available
- Roll Doff Reports are available
- Crimp Reports are available

### Air Consumption Monitoring

- CFM of each Loom is monitored continuously to provide
  - Instantaneous CFM
  - Average CFM
  - Cumulative CFM
  - CFM / Meter of fabric produced
- Air Consumption Report in Text & Graph for
  - Loom Wise
  - Shift Wise
  - Style Wise
  - Shed Wise
- By Monitoring CFM Consumed – Cost per Meter can be analysed
- Optimise Speed vs CFM consumed
- Prevent Avoidable stops / Breakdowns



### Power Monitoring

- Analysing Power Consumption Reports will help mills to
  - Reduce Power Bills (Cost)
  - Arrive at Cost / Meter of fabric produced
  - Speed vs Power Consumed
  - Quality of Power
  - Monitor Health of Motor and other related hardware

### Humidity & Temperature Monitoring

- Analyse RH & Temp. variations at different points inside the shed
- Optimise RH & Temp. for best Shed Running Condition

## Models & Optional Attachments

- ❑ Machine Terminal (**Standard Model**) for Production Monitoring with
  - ❑ 6 Inputs for Picks, Warp, Weft, Leno, Selvage, Catchchord)
- ❑ Machine Terminal with **18 Stops**
  - ❑ For automatic registering of 17 Stops reasons from machine panel \*
- ❑ Stop **Code Entry Terminal**
  - ❑ for Entering Stop Reason at one place
- ❑ Machine Terminal with **Finger Print Sensor** for Registering
  - ❑ Operator ID / Attendance
  - ❑ Supervisor ID / Attendance
  - ❑ Inspector ID
  - ❑ Stop Code Entry
- ❑ Machine Terminal with **Bar-Code Interface** or **RFID Interface** for Registering
  - ❑ Style
  - ❑ Operator ID / Attendance
  - ❑ Supervisor ID / Attendance
  - ❑ Inspector ID
  - ❑ Stop Code Entry



- ❑ Machine Terminal with **Fabric Defect Entry** for Registering
  - ❑ Fabric Defect on the Loom
- ❑ Machine Terminal with **Roll Doff**
  - ❑ Automatic Roll Doff on prefixed Picks / Meter
- ❑ Machine Terminal with **Automatic Looms Start / Stop arrangement**
  - ❑ Stop the Loom for any pre-set setting by the mills for Standard / Deviation
- ❑ Machine Terminal with **Lamp Post Indication Arrangement**
  - ❑ To provide various Indications for any pre-set setting by the mills for Standard / Deviation
- ❑ **Score Board** in 3 Sizes
  - ❑ For every Loom / Machine
  - ❑ For Group of Looms
  - ❑ For Shed or Central Location
- ❑ **SMS / Email** for automatic Alerts / Reports
- ❑ **LCD TV Software** at Central Locations inside the Shed / Supervisor, Office Room
- ❑ Machine Terminal with **Touch Screen Model Panel** on Loom

## Reports / Screens / Graphs

### Reports

- Production | Stoppage | Efficiency
- Efficiency Trend | Stop Graph
- True Drill Down Long Term Reports (From Macro to Micro Level)
- Efficiency Trend Graphs of Year ...Month... Day...
- All Reports can viewed by Machine | Style | Weaver | Supervisor | Department
- Assigned Men
- Snap Study
- Exception Reports
- Stop Bar Graph to show Machine Running / Stop over a selected period
- Speed Graph
- Roll Doff Reports
- Beam Planning & Unassigned Beam Reports.
- Crimp report

### Management Reports

- Performance | Long Term Report | Monthly Report | User Reports

### Comparison

- Weavers | Supervisor | Loom | Style

### Periodical Reports

- Weekly | Monthly | Hourly | Two / Three Shifts

### Power Graph & Reports

- Power Consumption (KVA,KWh) | Voltage | Current | Power Factor | M/kg | Frequency| power factor

### Air Consumption-Graph & Text Reports

- CFM - Instantaneous / Average / Cumulative CFM / Meter, KG

### Temperature & Humidity Graph & Text Report

### Special Reports (for Optinal Attachments)

#### On Loom Fabric Inspection

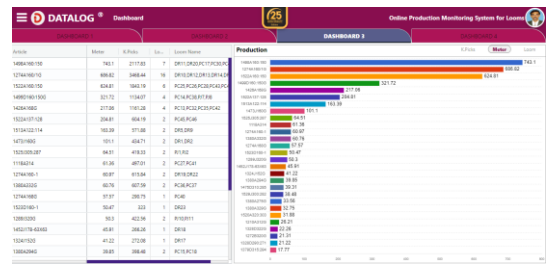
- Fabric Defect Report containing the details of Defects Entered by the Inspector
- Analyse & pass these information to inspection department.
- Helps the Inspection Department to reduce the inspection time
- Users have avoided final inspection by using this option

## Dashboards on

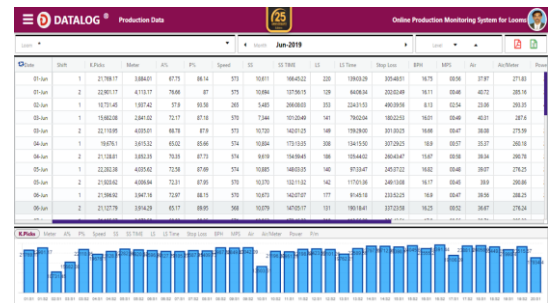
- Overall / Shed
- Production
- Stoppage
- Efficiency
- Speed
- Weaver Section I Group
- Power Consumption | Air Consumption
- Temperature
- Dashboard Analysis for individual Machine | Machine Type | Shed Wise



Machine	Stop	Production	Efficiency	Speed	Power	Air	Temp
PC14	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC15	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC16	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC17	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC18	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC19	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC20	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC21	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC22	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC23	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC24	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC25	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC26	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC27	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC28	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC29	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC30	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC31	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC32	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC33	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC34	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC35	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC36	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC37	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC38	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC39	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC40	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC41	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC42	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC43	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC44	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC45	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC46	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC47	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC48	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC49	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC50	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC51	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC52	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC53	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC54	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC55	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC56	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC57	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC58	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC59	0.00	100.00	100.00	100.00	100.00	100.00	100.00
PC60	0.00	100.00	100.00	100.00	100.00	100.00	100.00



Machine Type	Stop	Production	Efficiency	Speed	Power	Air	Temp
Waver Section I Group	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Power Consumption	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Air Consumption	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Temperature	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 1	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 2	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 3	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 4	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 5	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 6	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 7	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 8	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 9	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 10	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 11	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 12	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 13	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 14	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 15	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 16	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 17	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 18	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 19	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Shed 20	0.00	100.00	100.00	100.00	100.00	100.00	100.00



## Manufactured by

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