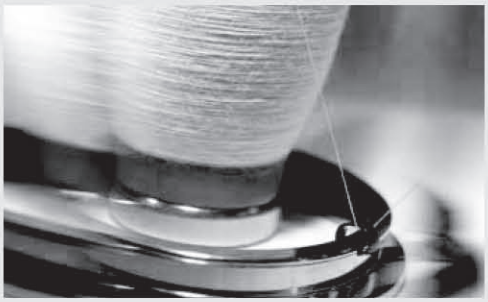
MAG™

beyond quality



25 years of Quality & Innovation

SPinFO™

Online Spinning Information System

Optimise your resources, Maximise your Profits

In the yarn manufacturing process, optimising the deployed resources by continuously monitoring and controlling the essential process variables improves the productivity and quality, thus increasing the profitability of the mill. The best way to achieve this is by closely monitoring the process at all the stages.

SPinFO, the Online Spinning Information System developed by MAG, acquires data from each and every machine precisely and provides a detailed overview of the manufacturing process to the users at various levels such as operators, supervisors, maintenance personnel, managers and the top management for immediate action, analysis and prompt decision making, thus ensuring the success of the spinning mill at a lower manufacturing cost. The immense benefits of **SPinFO** include:

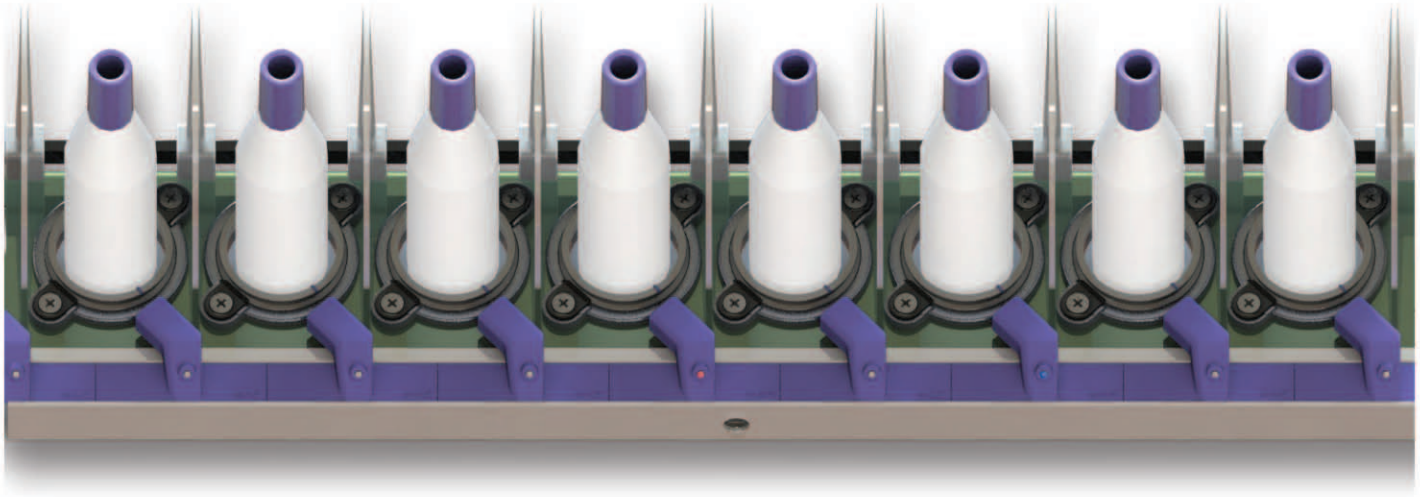
- Management personnel and technicians can closely observe the performance of the deployed resources and make effective decisions.
- Maintenance personnel can easily identify the deviations in the machinery and respond immediately, ensuring the optimum performance of the machinery.
- Operators can effortlessly find the end breaks or stoppages and prioritise their patrolling pattern to increase the productivity.
- A healthy Work culture is created at all levels by enabling the resources to work smarter rather than to work harder.

Monitoring Parameters

- Production
- Doffs
- Stoppages
- End Breaks
- Rogue Spindles
- Slip Spindles
- Idle Spindles
- Draft
- Twist
- Optional
  - Power Consumption
  - Air Consumption
  - Temperature & RH

Technology

- Differential EMF detection technology for monitoring the deviations at the spindles.
- Proximity detection technology for monitoring Production, Drafts and Doffs.
- Server client configuration to enable simultaneous and multiple user access to the data.
- Wireless Data transmission to reduce wiring complexity and maintenance.



Six Tier information systems

Tier 1 - Spindle Level

Two colour LED with two types of indication for each spindle to indicate deviations instantly. Solid red - End Breaks, Red blinking – Idle Spindle, Solid blue – Rogue Spindle and Blue blinking - Slip Spindle.

End Break

Rogue Spindle

Idle Spindle

Slip Spindle

Tier 2 - Sectional Level

Two colour Blinking LED indication at every section of the ring frame that helps the operator to identify the deviations quickly from long distances.

End Break / Idle Spindle

Rogue Spindle / Slip Spindle

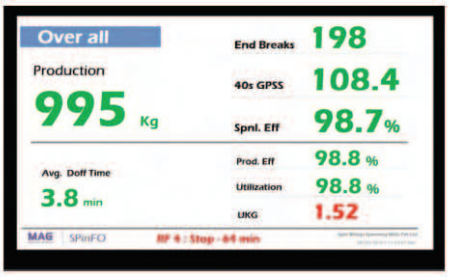
Tier 3 - Machine Level

Machine Information unit displays the spindle efficiency, end breaks, rogue, slip, idle spindles and consumption for each side of the machines individually. Alerts for excessive end breaks and upcoming doffs through signalling lamps.

Note : Only the Tiers 3 to 6 are applicable for spinning preparatory

Tier 4 - Block Level

Block level live statistics for the current shift is displayed in a Large information panel (LED TV). Data selection can be done remotely.



Tier 5 - Plant Level

Information about all the resources throughout the plant can be obtained from the client software that features a Dashboard, Dynamic Analysis and Reports.

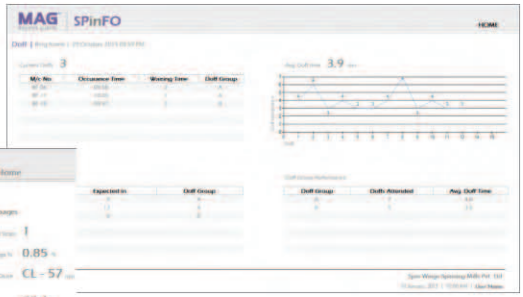
Tier 6 - Mail and SMS

Alerts and Periodic reports via Mail and SMS to defined persons.

Dynamic and User friendly Software

- The software has been designed to furnish the right data to the right person at the right time.
- Windows based informative and user friendly software.
- Well organised dash board renders two-level graphical information about the current shift.

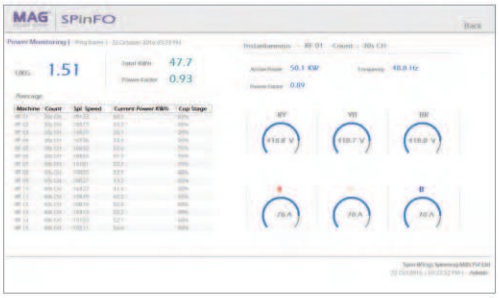
End Breaks Monitoring



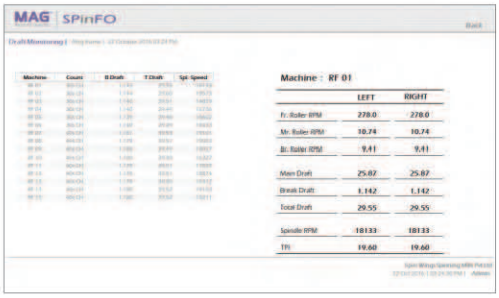
Doff Monitoring

Dash Board

- Power and Draft monitoring with average and instantaneous values in graphical form.

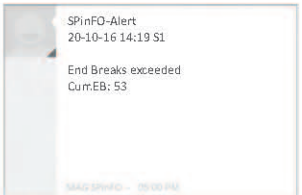


Power Monitoring



Draft Monitoring

- Localised data selection enables the user to focus on the machines under their responsibility.
- Powerful analysis and reporting tool with user friendly options.
- Management Information System (MIS) reports through Mail and software.
- Easier resource and count mapping for machines.
- Multiple users can access any data simultaneously, without compromising data integrity.
- Multiple language support to enhance the end user accessibility.
- Automatic data backup to eliminate the risk of data loss.

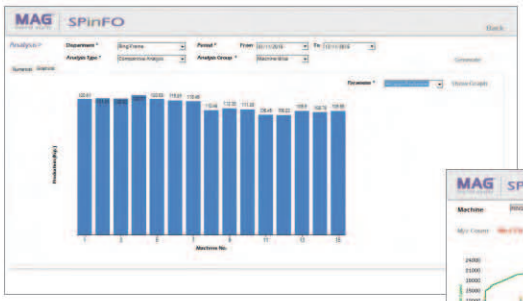


SMS Reports and Alerts

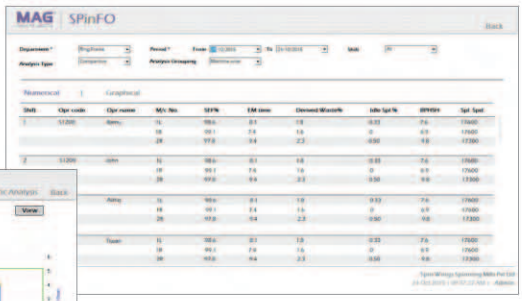
Vital Analysis and Reports

- Dynamic Analysis facilitates numerical as well as graphical analysis of the data through,
  - Detailed Analysis
  - Comparative Analysis with Graph
  - Trend Analysis with Graph
  - Speed curve analysis

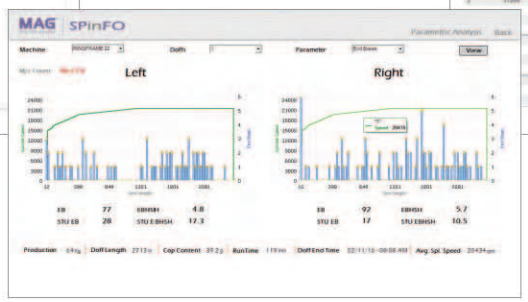
- Comparative report with sort and filter options for easier and faster analysis.
- Analysis Results can be exported to Excel for sharing and storing.



Comparative Analysis



Detailed Analysis



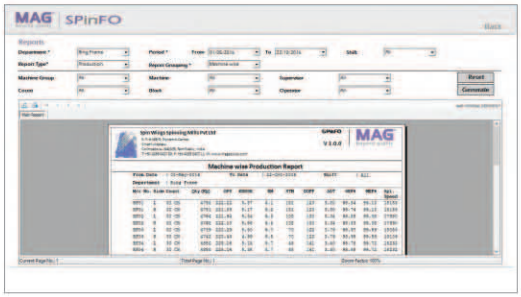
Speed Curve Analysis

- **Report types**
  - Overall
  - Production
  - End Breaks
  - Deviations
  - Stoppages
  - Power Consumption

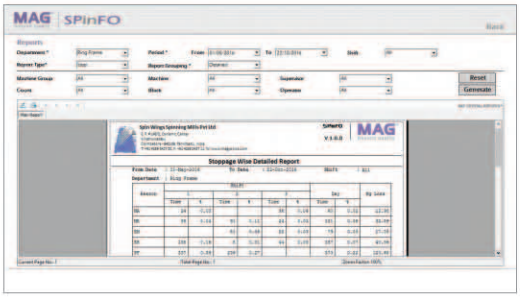
- **Report grouping**
  - Machine wise
  - Machine group wise
  - Operator wise
  - Supervisor wise
  - Block wise
  - Count wise

- Reports with multiple and instant filter options.
- User configurable report parameters.
- Automatic orientation of the reports for paper conservation.
- Data rich MIS Report with graphs for quick and easy analysis of the situation.
- Print and export to MS excel or PDF options.

Filter Reports



Generated Report



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beyond quality

MAG was established in 1991 with an insight to design and develop testing instruments for Textile industry. Over the years, the company has grown its product portfolio and aligned its offering to the changing industry requirements and technology advancements. Today, MAG Solvics Private Limited is a multi-product, multi-market enterprise that provides total testing solutions for all the segments of Textile industry viz. ginning, spinning, weaving, knitting, processing, apparels and garments all over the world with installations exceeding 8000 units.

With the experience and knowledge that we have gained over years and with a view to serve the other core requirements of the Textile industry, we have developed the online monitoring system **SPinFO**. Though we expand our portfolio, we continue our streak in research and development of the textile testing instruments through our recent innovations.

HVT Genius 2030
High Volume Fibre Tester

UH Expert 2012
Unevenness & Hairiness

TensoMaster
Single Yarn Strength Tester

ISO 9001 : 2008 Certified

RECOGNIZED R&D CENTRE

CRISIL RATED COMPANY

Our Associate

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