SPIN CONNECT

LMW
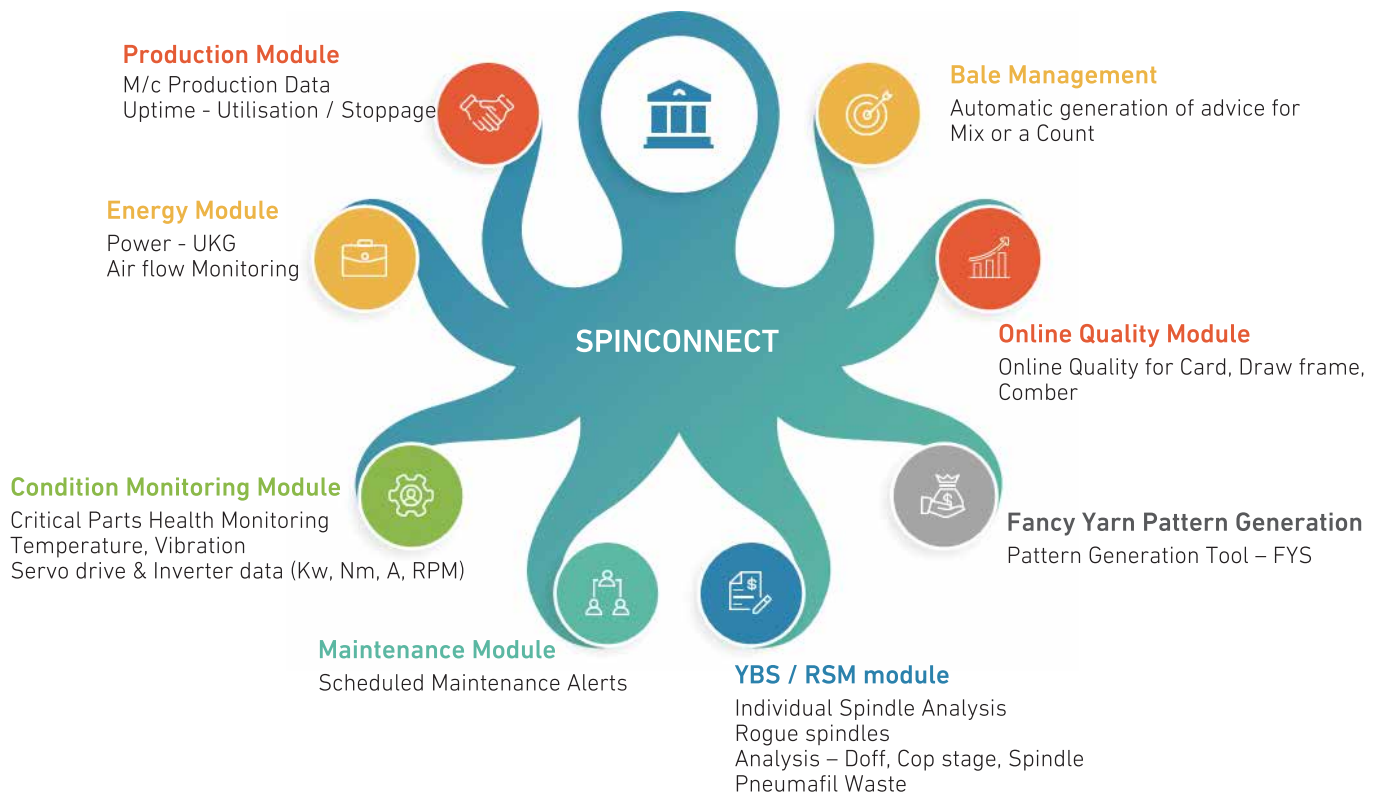
Spin Connect, a web-based monitoring and control system is an all-in-one application that provides the overall view of spinning mill's performance in a single window.

The digital system connects all machinery and provides information on production, quality, maintenance etc. so that management team, technical team, operators can monitor, and manage / maintain spinning mills.

This system enables to optimize processes and effectively utilize resources resulting in cost saving and increased profits.

SPINCONNECT

Production Module
M/c Production Data
Uptime - Utilisation / Stoppage

Bale Management
Automatic generation of advice for Mix or a Count

Energy Module
Power - UKG
Air flow Monitoring

Online Quality Module
Online Quality for Card, Draw frame, Comber

Condition Monitoring Module
Critical Parts Health Monitoring
Temperature, Vibration
Servo drive & Inverter data (Kw, Nm, A, RPM)

Fancy Yarn Pattern Generation
Pattern Generation Tool – FYS

Maintenance Module
Scheduled Maintenance Alerts

YBS / RSM module
Individual Spindle Analysis
Rogue spindles
Analysis – Doff, Cop stage, Spindle
Pneumafil Waste

Mobile App
Real time update and quick access of mill performance from anywhere any time

E-Alert
SMS & Mail alert system for deviations & abnormalities in the process, along with a service call & escalation matrix

Reports & Charts
User defined performance report & charts to fix & attain targets

Read Write
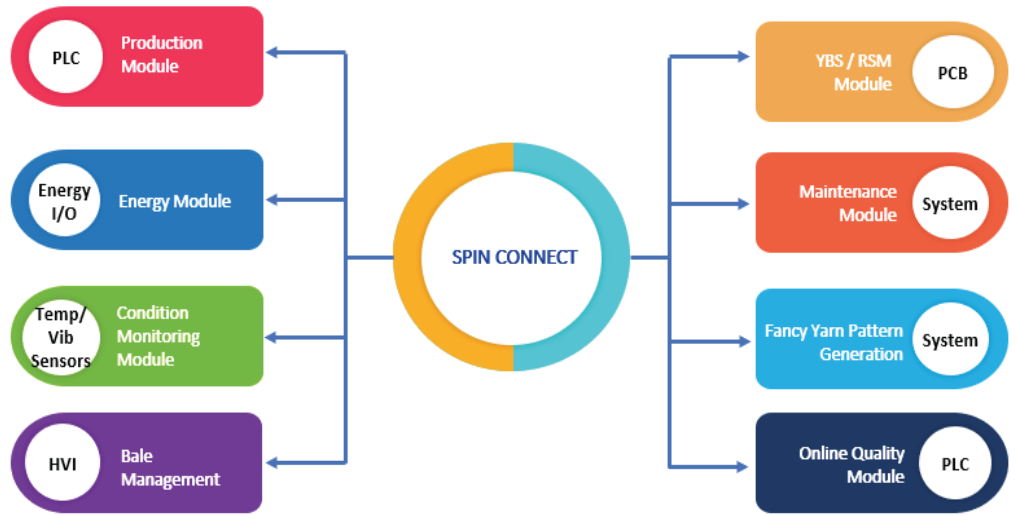Don't just view, have the power of controlling the process parameters

Web Based
Any thing, Any where - Access on the go through browser

Spin Connect USP

1. Capturing drive data - KW, A, Nm, Rpm

2. Periodic Software Updates

3. Remote Software Diagnosis

4. Bale Management

The Data Source & Spin Connect Modules

Production Module

The base of Spin Connect system which collects datum of each machine that contains the details like production achieved in each machine, efficiency, utilization, losses occurred and their various reasons. These datum will become a big data and get stored in a dedicated server of Spin Connect system which itself is protected by firewall and can be retrieved from any where through computer and smart phones and tabulated for analytical purposes

Energy Module

This module helps monitoring the instantaneous and history of energy consumption rate of various machinery. This helps to identify the odd performing machine and the same cane be attended by technical team immediately. Consumption data of hourly, doff wise, shift wise, day wise, week wise and month wise data are available, and user defined reports can be generated. UKG of process and UKG of machine are generated.

Condition Monitoring Module

This module comprises of machine with provision to monitor the vibration level and temperature of key components and will raise alarm once these monitoring parameters exceed the permissible limit. Machine functionality can be monitored centrally and can avoid sudden breakdowns by monitoring machine health pro-actively.

Bale Management

This module helps in generating a fool proof system for creating bale laydown with maximum homogeneity at every line of traverse. Each bale will be coded, and their sample testing report will be uploaded through the mentioned coding system. The inbuilt algorithm of this module will generate the laydown using the code that was generated. This laydown will get generated by considering the key fibre properties as per the process.

YBS / RSM Module

Yarn Breakage System (YBS) consists of individual magnetic sensors to monitor individual spindles on Ring frame machine by accounting traveller rotation. Individual spindles breaks, idle, slip, rouge, abnormal slip is visible in spot positions and individual spindle indication are made with different identifications. This system reduces the patrolling time, monitors breakage rate & increase the piecing efficiency thereby increasing the production.

Roving Stop Motion Roving Stop Motion (RSM) is used to stop the Roving flow as a waste while there is no spinning process carried out. RSM stops individual spindle roving and supports to reduce the pneumafil waste. Avoids damage to cots & aprons and reduces the hard waste.

Maintenance Module

This module provides regular alerts for Scheduled Maintenance, thereby the hygiene of the machine is maintained always.

Fancy Yarn Pattern Generation

This module acts as a tool for slub pattern generation in producing fancy yarns in LR9SX/LRJ9SX Series smart RFs

Online Quality Module

Online Quality - Consistency in quality can be achieved by monitoring every batch of sliver output and by correcting the deviation whenever it happens. Spin Connect indicates the sliver unevenness and CV% of Carding machines, Draw frame and Combers there facilitating adjustment of process based on the condition of pre and post machine process.

Offline Quality – By providing the offline quality values as an input, running of the same process again is made easy, as the past performance of the machine & the quality value achieved is available already as reference.

4S SMART SOLUTIONS FOR SPINNING SUCCESS

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