

Ultimo™

Technical Data*

Basic installation

- Differential e.m.f Detector for each Spindle
- Individual Spindle and Section LED
- Production and Doffing Sensors for each Ring Frame
- Machine Station for each Ring Frame
- End Break and Doff Indication Lamps
- Communication: Wireless and TCP / IP
- Network Switches and Connectivity
- Machine Display Unit (MDU)
- Ultimo Server

Additional Options

- Draft Monitoring
- Energy Monitoring (kWh per kg)
- End Break Indication Lamps for three levels
- Tab & Mobile App
- Roving Stop Motion
- SpinBike
- Production & Energy Monitoring for Preparatory Machines

Measuring Principle

- Individual Spindle : Differential emf Detection
- Production and Doff : Proximity Sensing
- Draft Monitoring : Proximity Sensing
- Energy Monitoring : CT

Key Technology

- Detection of Rogue and Slip Spindle
- Twist Monitoring (TPI)
- Draft Monitoring
- Energy Monitoring

User Interface

- Large TV - Status Display
- Real Time Dash Board View
- Reports for Comprehensive Analysis
- Mobile App for Live Information

Indication Lamps (Located at Head/End Stock, Section and Individual Spindle)

- Normal End Breaks
- Idle Spindles
- Slip Spindles (Two Slip levels exceeding the Set Limit)
- Rogue Spindles
- Normal Breaks exceeding the Set Limit
- Indication Lamp for pre-doff and doff

Output Parameters

Numerical Results:

Off - Standard Positions and Deviations

- Rogue and Slip Spindle
- Deviation of Critical Parameters

End Breaks

- End Breakage Rate
- End Break Classification
- End Mending Time

Production

- Production
- Utilisation%
- Actual and Production Efficiency%

Stop

- Stop%, Stop History and Summary

Doff

- Doffing%, min / doff and Doffing min

Energy Monitoring

- kWh
- kWh per kg (Ukg)
- Power Factor
- Frequency
- 3 Phase Current & Voltage

Graphical Results:

- Cop Analysis
- Power Analysis
- Trend and Comparison

Ambient Condition

Particulars	Server	Machine Station
· Temperature	20 to 27°C	20 to 50°C

Installed Power

- Single Phase 220V AC
- 500 VA for Server
- 50 VA for Coordinator
- 250 VA for Network Switch
- 250 VA for Machine Station

* Subject to change without notice



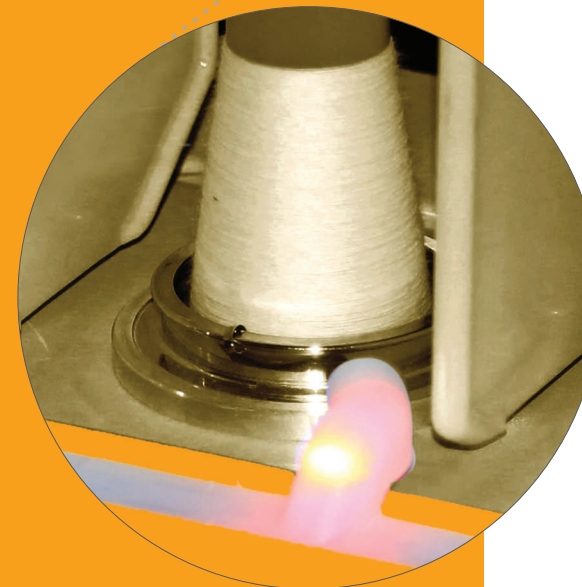
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PREMIER

Ultimo™

Individual Spindle Monitoring System
 For Ring Spinning Machines



Individual Spindle Monitoring System for Spinning

Comprehensive Productivity and Quality Monitoring

- | | | | | |
|-------------------|----------------|--------------|----------------|-------------------|
| Production | Utility | Stops | Quality | End Breaks |
| • Efficiency | • kWh | • Summary | • Slip | • eb/100sh |
| • Utilisation | • Ukg | • Reasons | • Rogue | • em |
| • gpss | • wps | | • TPI | • Idles |
| | | | • Draft | |

and most importantly **Exceptions...**

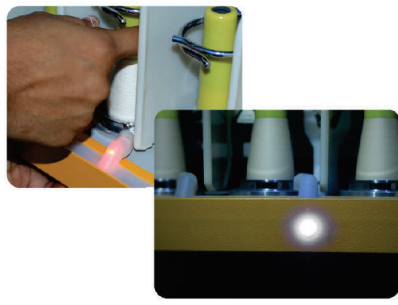
- **Real Time Information**
- **Easy Installation**
- **Zero Maintenance**



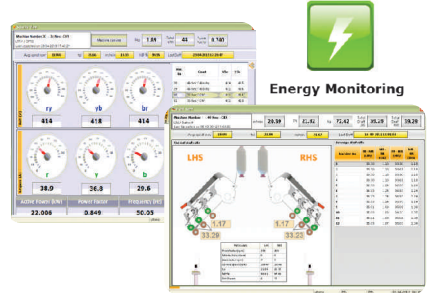
- ### Large TV - Status Board
- The Large Flat TV at vantage points to view exceptions
 - **Real Time Display** of Shed performance can be visualised instant

Ultimo	Shed 1	PREMIER
Efficiency%	Idle	0.4%
95.0	Breaks	0.8%
	Stop	1.6%
	Rogue	1.0%
	Slip	0.0%
30s - 2 frames		
Efficiency	kg	tpi
90.6	330	20.0
	eb/100sh	em
	9.8	3.2
	doffs	4

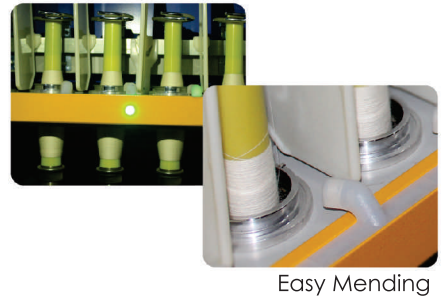
- ### Individual Spindle & Section LED Indications
- Easy to distinguish and indicate Yarn Break, Rogue, Slip and Idle Spindles with **Multi Coloured LED**
 - End breaks are identified **Instantaneously**
 - Differentiates the Ring Frame section that requires attention by the operator and the maintenance staff



- ### Energy / Draft Monitoring
- All new **Energy Monitoring** with Comprehensive details
 - The Intelligent **Draft Monitoring** system helps to highlight draft deviations

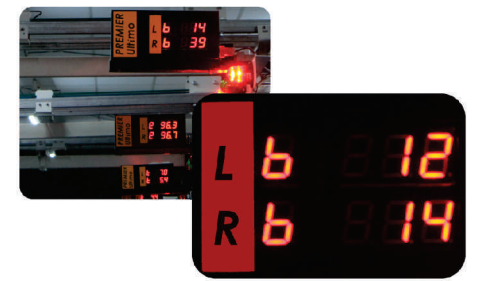


- ### Operator Friendly
- Rogue and Slip Spindles are identified by the flashing **Green Section LED**
 - Yarn Break and Idle Spindles are distinguished by the flashing **White Section LED**

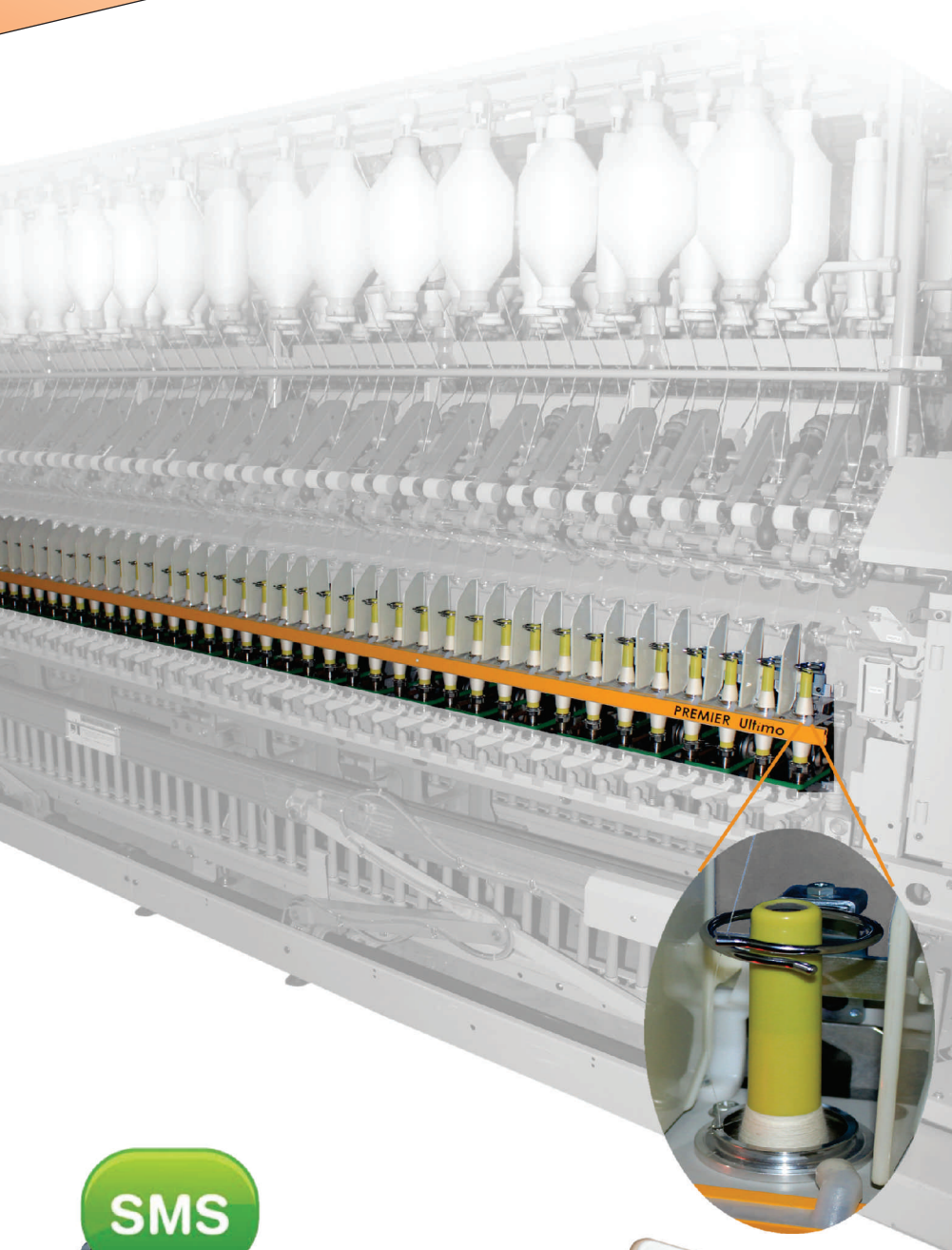
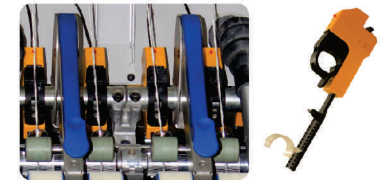


Easy Mending

- ### Machine Display
- Individual Machine display units located at Head Stock provides the **Number of End Breaks, Rogue, Idle, Slip Spindle, End Mending Time** and **Efficiency** for quick decision by the operator to decide the Machine side that needs immediate attention



- ### Roving Stop Motion
- Stops the supply of roving when yarn breaks
 - Huge savings in **Pneumafil Waste**
 - **Elimination of Roller Lapping** and its subsequent problems like difficulty in Lap removal, Top roller and Apron damages, etc.,



- ### Instant Alerts
- Receive **SMS Alerts**
 - **eMail** reporting to user defined Executive personnel



- ### Analysis
- **Cop Stage View** to analyse the effect of speed pattern on yarn breaks and other parameters
 - **Trend and Comparison Charts** for analysing long term data



- ### SpinBike
- **Intelligent and Efficient Patrolling** between Ring Frames
 - **Synchronized** with Ultimo ISM
 - Traverse in both forward & reverse directions



- ### Mobile App
- Support for **Apple & Android**
 - Available as **Management and Maintenance App**