

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 Computer

Additional Options

- Draft Monitoring
- Energy Monitoring (kWh per kg)
- Air Monitoring
- End Break Indication Lamps for three Levels
- Tab & Mobile App
- Ultimo on Web
- Roving Stop Motion
- RH & Temp
- Pneumafil Suction Control
- Production & Energy Monitoring for Preparatory Machines
- Alarm / Machine stop for draft and Twist deviations
- SpinBike

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
- Air 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 and severe rogue spindles
- Normal Breaks exceeding the Set Limit (Single or 3 levels)
- Indication Lamp for pre-doff and doff

Output Parameters

Numerical Results:

Spindle Deviations

- Breaks, Idles, Slips, Abnormal Slips, Rogue, Severe Rogue, Probable tape cuts

Key Production Parameters

- kg, gpps, Converted gpps, Delivery speed

Efficiency and Losses

- Actual & Production Efficiency, Utilisation
- Loss due to Breaks, Idles, Batch Breaks,
- Stop & Doff Loss

Stops and Doffs

- Stop & Doff time
- Long Doffs
- Stop History & Summary

End Breaks

- End Breakage rate
- Break Classification (Normal, Startup, Idle, Batch Breaks)
- End Mending Time
- Piecings

Utilities

- 3 Phase current & voltage
- kWh, Ukg, Power Factor, Frequency
- Air Consumption (CFM & other units)

Graphical Results

- Doff & Energy Analysis
- Trend & Comparison
- Stop Time line Chart
- Maintenance Scheduling

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
- 5 W for Network Switch
- 250 VA for Machine Station
- 85 W for Status Board

* Subject to change without Prior notice



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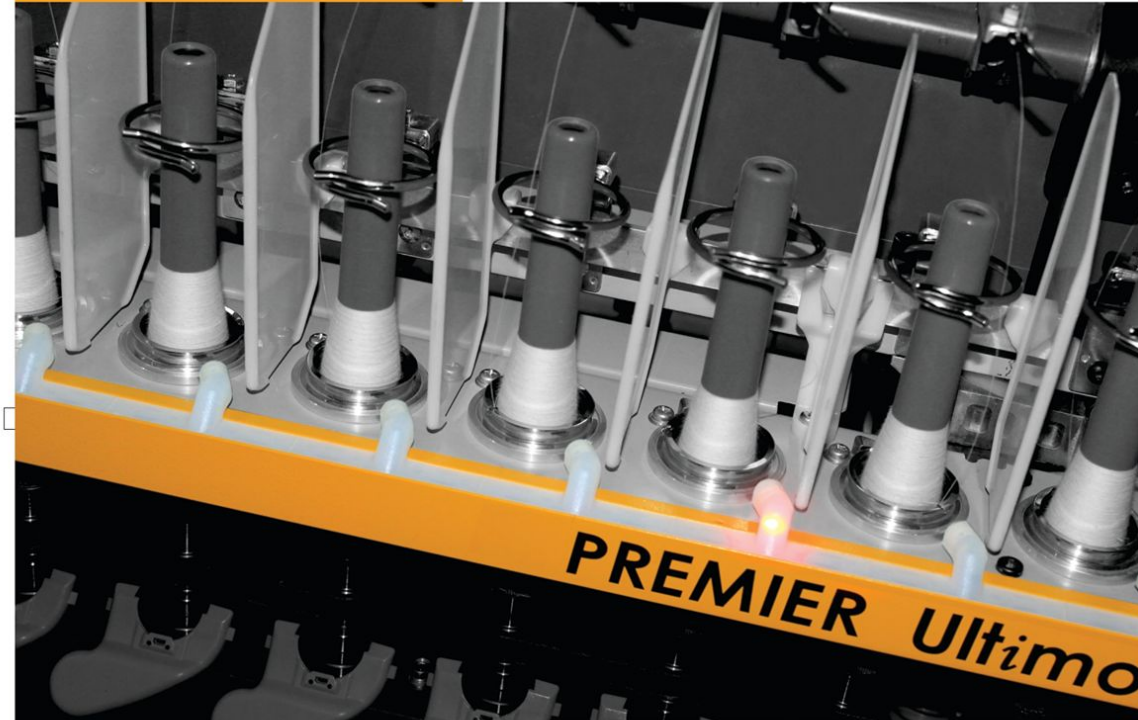
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PREMIER

Ultimo™

Ultimate Monitoring System
ISM RSM PMEM SpinBike



iQ
intelligent QUALITY

mate Monitoring System

Comprehensive Productivity and Quality Monitoring

- | | | | | |
|-------------------|----------------|--------------|----------------|-------------------|
| Production | Utility | Stops | Quality | End Breaks |
| • Efficiency | • kWh | • Summary | • Slip | • eb/100sh |
| • Utilisation | • Ukg | • History | • Rogue | • em |
| • gpass | • wps | • Reasons | • Twist | • Idles |
| • kg | • RH & Temp | | • Draft | • Piecings |
| • Waste | • Comp.Air | | | |
| • Losses | | | | |

and most importantly **Exceptions...**

Individual Spindle & Section LED Indications

- Multi Coloured LED to easily distinguish and identify Yarn break, Idle, Slip, Abnormal Slip, Rogue and Severe rogue spindles
- End breaks are identified **Instantaneously**
- Differentiates the Ring Frame section that requires attention by the operator and maintenance staff



Energy / Draft Monitoring

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



Operator Friendly

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



Machine Display

- Individual Machine display unit located at Head Stock provides information like **Breaks, Idles, Slips, Rogues, Spindle Speed, End mending time, Efficiency, Temp. & RH%, Running count etc.**, for quick decision to decide the Machine side that needs immediate attention



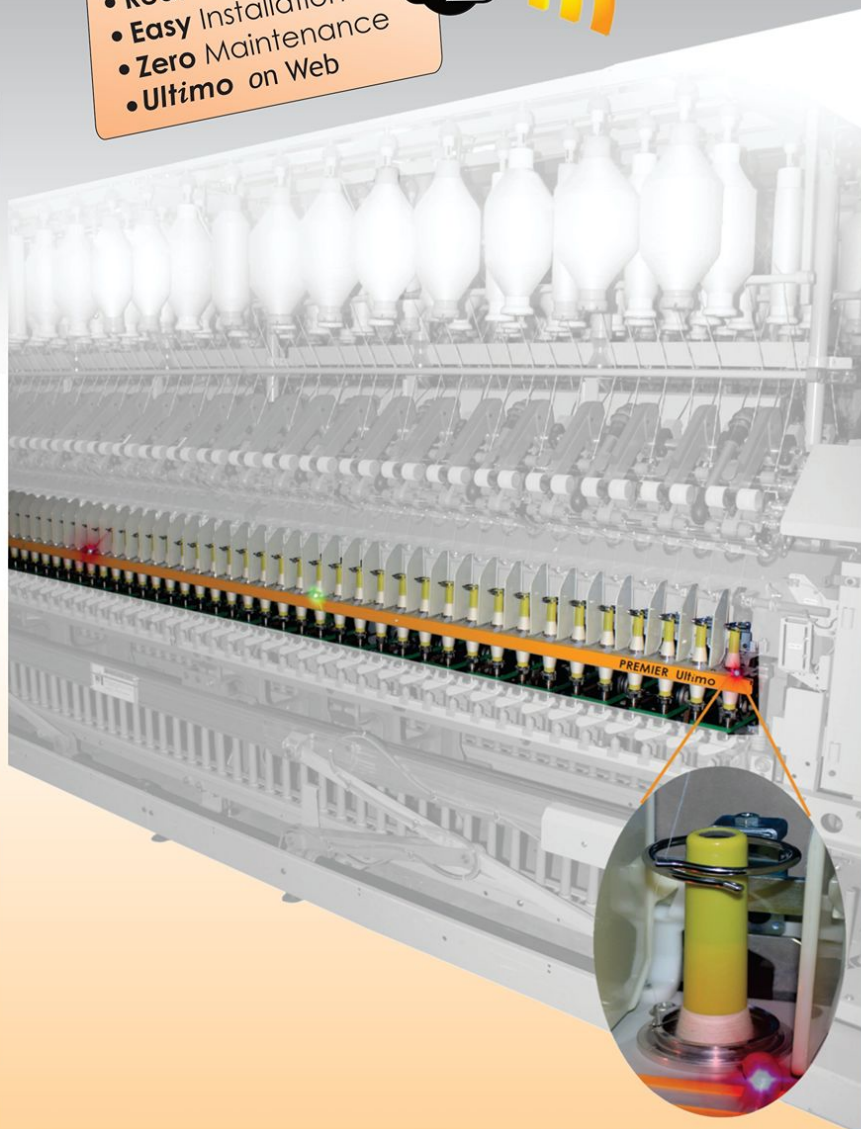
Web based views

- Access **Ultimo** data online through web
- Requires registration



l f t i b i d from

- **Real Time Information**
- **Easy Installation**
- **Zero Maintenance**
- **Ultimo on Web**



Ultimo		All Sheds		PREMIER	
AEF%	93.5	Idle	0.12%	Breaks	0.73%
		stop	3.56%	rogue	0.00%
		slips	0.15%		
60 Nec CW- 4frames					
AEFL	kg	tpl	eb/100sh	em	dofts
96.9	249	30.5	9.6	7.2	7

Large TV - Status Board

- Large Flat TV at vantage points to view exceptions
- **Real Time Display** of Shed performance can be visualised instantly



Central Dash Board and Information System

- **User Configurable Widgets** with drilling facility for detailed analysis of performance and deviations.
- **Highlight Exceptions** for all set parameters exceeding defined limits



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
- **Tile View** to identify poor performing machines easily and analyse the reasons



Mobile App

- Support for **Apple & Android**
- Available as Management and Maintenance App
- User configurable parameters
- **Ultimo Benchmark™** for all counts

Instant Alerts

- Receive **Alerts** for any deviations
- **eMail** reporting to user defined Executive personnel



Pneumafil motor suction control



- Pneumafil Fan Motor can be controlled based on end breaks to save power instead of running at constant speeds.

Air Monitoring

- To monitor abnormal air consumption because of leakages and take remedial actions for reducing power cost.



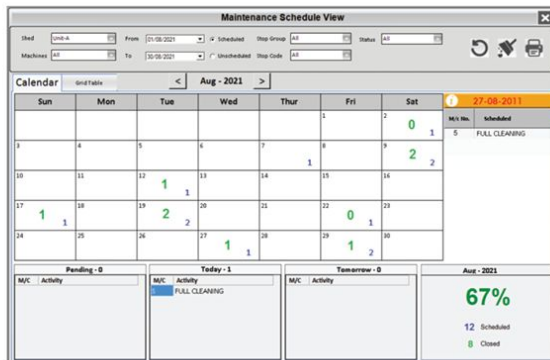
RH & Temperature Monitoring

- Average and position wise RH/ Temperature value as live views and reports
- Helps to identify RH / Temperature deviations due to various ambient conditions



Browser based software

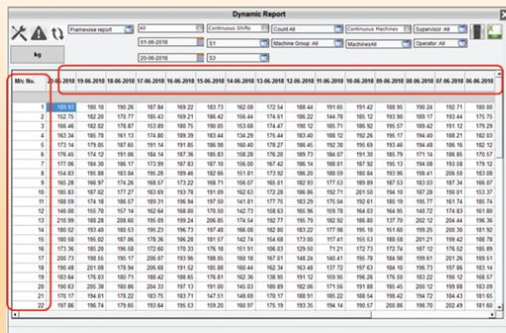
PREMIER Ultimo now in new software platform works in browsers with many advantages compared to any other platform, enabling to visualize information from anywhere.



Maintenance Scheduling

A sophisticated tool which helps maintenance team to schedule the maintenance activities in the software with evaluation of daily activities.

Both scheduled & unscheduled maintenance activities can also be configured.



Dynamic Reports

A powerful reporting tool wherein user can create own report templates.

Export of huge data as spreadsheets is possible.

Telegram Message alerts

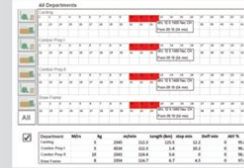
A paradigm shift from traditional short messaging services (SMS) to internet based messaging service.

PREMIER Ultimo uses Telegram App for triggering message alerts. Users can configure their required parameters and limits.



For Preparatory

- Preparatory Dashboard provides production of the preparatory departments in one snap view with other key information like Utilisation etc.
- Detailed reports on preparatory department performance with user configurable parameters.
- Reason wise stop monitoring as an option



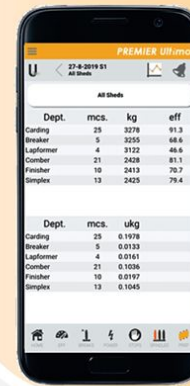
Integrated production status information on TV from Carding to Ring frame department in one view helps to assess production balancing levels

Ultimo	All Sheds	PREMIER
Carding	947	794
Breaker Drawing	994	722
Comber Pre-1	761	665
Comber	1176	

Ultimo	df1	PREMIER
AEF%	80.7	2 67.7
Low Efficiency Mch		4 78.8
		7 80.2
		3 80.5
		1 82.2
		9 83.4

Ultimo PM in Mobile App

Integrated information of preparatory machine performance in mobile app



Preparatory Stop Code entry module to enter the reason for Stoppages as codes

Option to view machine Status and delivery speed



Stop Code Entry Module

Ultimo BenchMark™ in App



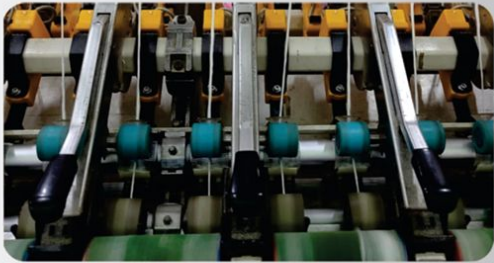
- gpps
- AEF
- % Loss – Normal breaks
- % Loss – Idle

- Doff%
- eb/100sh
- End mending time
- Ukg

- Waste %

- Ultimo BenchMark™ available on Ultimo Main App
- Ultimo BenchMark™ available for all Popular counts (Carded and Combed)
- Automatic Ultimo BenchMark™ updation online

RSM for Ring Spinning



- 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.,
- Available for Double Roving/Injection Slub
- Precise module for stopping the roving supply when yarn breaks
- Activates immediately after a yarn break
- Easier lock removal for starting the roving supply
- Very minimum maintenance required
- Quick payback

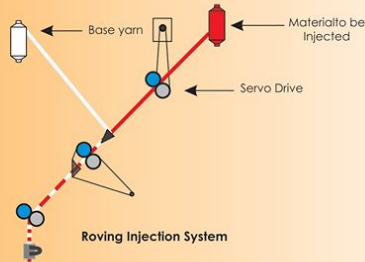
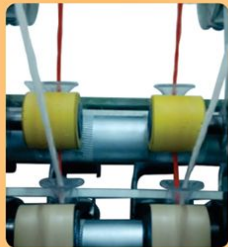
RSM for Double Roving



- Innovative technology by Premier for double roving feeding mechanism
- Stopmotion sensor Module Positioned in-between Back and Middle roller
- Two Rovings passed over the sensor. If single Roving or Yarn Breaks, the sensor will stop the supply of both the Rovings with an LED indication

RSM for Injection Slub

- No solution to stop base roving when yarn breaks until now... PREMIER has
- Simultaneous activation for both Injection & base roving material
- Helps to save expensive raw material
- Add-on module to RSM



ROI Benefits

Area of Improvements	Achieved levels by mills
Man Power reduction	25%
Reduction in Component Damages	100%
Waste% reduction	67%
Lighting reduction	22%
Productivity increase	20%
Energy savings	Rs.110/spindle/year
Pay Back period	9 months
Autowinder Efficiency increase	2%
Reduction in second quality yarn sales	33%



Adding convenience to the operator at workplace motivates and increases productivity. **Ultimo SpinBike** in combination with **PREMIER Ultimo** individual spindle monitoring system is such an essential tool for spinning mills which helps operator to patrol quickly and directly reach the break positions based on spindle light indications. This directly reduces the end mending time and increases the operator efficiency.

Benefits of Ultimo SpinBike

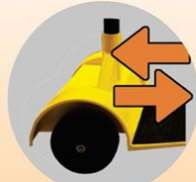
- No walking required, no fatigue
- Increased operator efficiency
- Reduced end mending time
- Reduced Pneumafil waste
- Increased production
- Easy to drive between Ring frames
- Shorter turning radius
- No driving skills required
- LED headlight can be used during patrolling and piecing.
- Forward & reverse movement for smart patrolling



Front Head Light



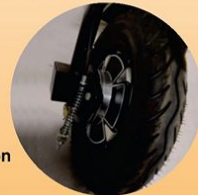
Forward and Reverse Movements



Electric Horn



Tubeless tyre with drum brake



Replaceable battery & Additional battery



Battery Level Indicator



Key Lock provision

