



OUR PROFILE

Our LAMFI covers high-quality services for increased productivity through consulting, design, manufacture and project management, and even total system deliveries for custom build projects. Our objective is to be the forerunner in the development of new design, manufacture and automation methods. The achievement of this objective is based on know how we have accumulated over the years. Our services cover all the customer's needs regarding automation solutions or systems.

A cost-efficient project team consisting of our skilled designers and project management professionals is set up for each project paying attention to the special features of each project. This team is responsible for specifying the project requirements for implementation, scheduling and quality, naturally with the support of our entire vast experience and resources.

In addition to basic services, our versatile service portfolio includes many special areas of expertise as well as services transformed into products.

LAMFI is situated in Coimbatore with all facilities. Our extensive cooperation network makes the wide-scale expertise of also our collaboration partners and component suppliers available to our customers.

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Our Milestones:

1. UMPS (Uninterrupted Motor Power Supply)



LAMFI is proud to introduce **UMPS** which is working with our own technology which incorporate VFD's with battery backup system. This system is suitable for all continuous processing plants & all industries.

Salient Features:

- Continuous processing will not disturb while in power interrupts.
- Smoothly load current change over from AC to Battery as well as Battery to AC.
- Energy saving is achieved, save Electricity bill and Fuel cost.
- Due to less accessories and simple wiring, the fault analyzing will be easy.
- Quick Pay Back, Optimum men power.
- Optimum Gen Set Utilization that saves your fuel and maintenance cost.
- Additional investment and maintenance cost of UPS and Gen set not required.
- Maximum production in same capacity of machine.
- Easy for Production planning, hence machine run time reduced,
- Energy saving is possible to eliminate of DC motor cooling fan.
- Computer interfacing optional.

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2. Railway Concrete Block Vibrator's Vibration Controller



System Over view:

This system is developed for railway concrete block manufacturing Plants & it can be used for all kind of concrete vibrator units also. This system will maintain the no' of vibrations of the vibrator motor.

Salient Features:

- Set value of the vibration will be achieved without fail.
- Existing Custom build alternator can be removed.
- No moving & running accessories.
- Power saving is achieved.
- Due to less accessories and simple wiring, the fault analyzing will be easy.
- Existing starters can be eliminated. Motor protections will be take care by VFDs.
- Quick Pay Back.
- Computer interfacing optional.

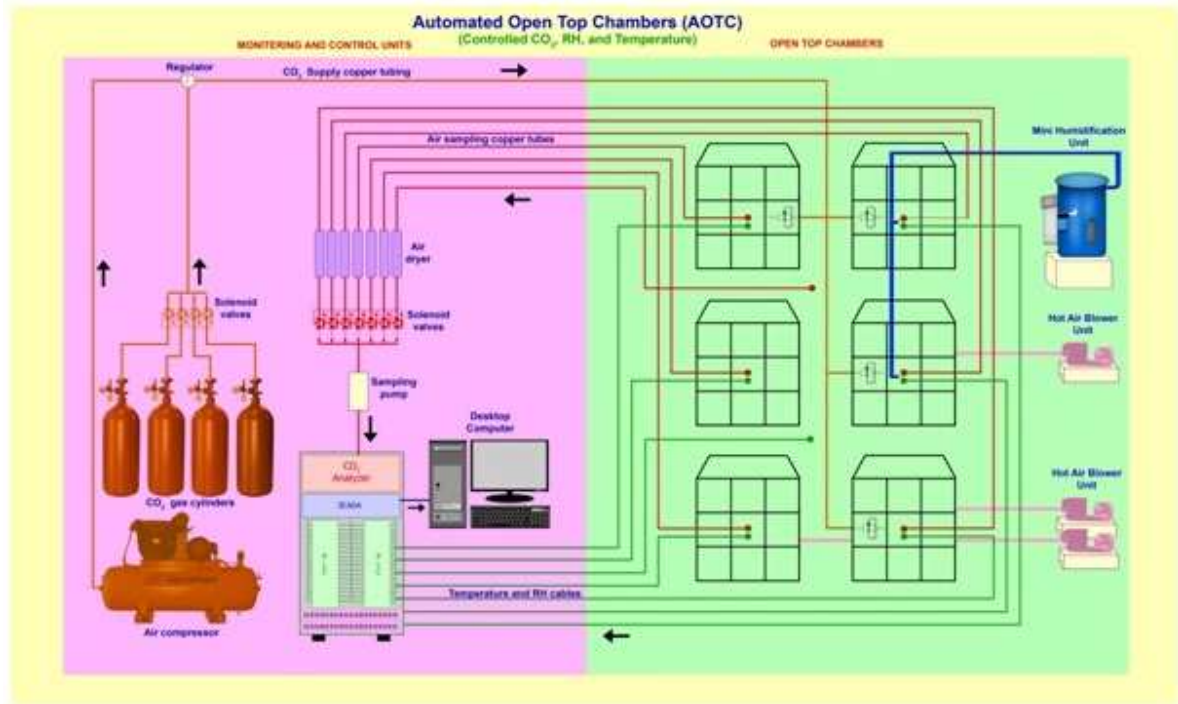
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3. AOTC (Automated Open Top Chambers)



LAMFI introduces a new technology in Institute of forest Genetics and Tree Breeding (IFGTB Government of India) to help the scientists for continuous monitoring the Plants Growth & behavior in various climates and various Co2 conditions.

Salient Features:

- Set value of the Co2 will be maintained inside the Chambers.
- Set value of Relative humidity & temperature will be maintained inside the chambers.
- All actual values like RH, Temperature & Co2 will be monitored continuously by our system around the clock.
- All the values are stored in the system with the help of PLC and SCADA.

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4. UMPS for Extruder plant with Winders



Salient Features:

- Continuous processing will not disturb while in power interrupts.
- Smoothly load current change over from AC to Battery as well as Battery to AC.
- Energy saving is achieved, save Electricity bill and Fuel cost.
- Synchronization of Extruder, GI,GII,GIII with help of HMI,
- Due to less accessories and simple wiring, the fault analyzing will be easy.
- Quick Pay Back, Optimum men power.
- Optimum Gen Set Utilization that saves your fuel and maintenance cost.
- Additional investment and maintenance cost of UPS and Gen set not required.
- Maximum production in same capacity of machine.
- By reducing the number of restart, the quality of HIGH DENIEAR / FIBC Tap will not affect in slow speed.
- Easy for Production planning, hence machine run time reduced,
- Energy saving is possible to eliminate of DC motor cooling fan
- Computer interfacing optional.

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5. ABB MAKE INVERTER WITH LAMFI INFINITE STEP SPEED

The Spinning Control Application Software is a solution for controlling spinning machines precisely and for preventing yarn breakages. VFD with its Advanced Direct Torque Control allows maximum production and prevents yarn breakages during start-up and any power losses.



The spinning control application program is designed to run spinning bobbins in ring frame textile machines. To achieve the best possible from the doff for the spinning sequence should be ideal for a traverse of the yarn. All this is achieved by giving pre-set values for the speed depending on the Doff build-up stage.

<u>Advantages of using Spinning Software:</u>	<u>RING FRAME PATTERN CURVE</u>
<ol style="list-style-type: none"> 1. Production Improved up to 15% & Reduction of pneumafil waste. 2. Spindle Speed, yarn length are displayed in VFD itself. 3. No External PLC or Counters required and No need of external proximity or sensors to avoid manual malfunctions. 4. No more Dual Speed Motors, No Need of Pulley changing & No need of contactor and OLR for main motor. 5. Memory to store 4 Speed Length Pattern for different Yarn Counts. Each pattern contains 16 Steps. 6. Cumulative Hanks display, Average table speed display, Doff end alarm & Alarm for wrong table or pattern entry. 7. Direct coupling of Main motor with machine is optional. Hence no need of belt & pulley. 8. Integrated Safe torque OFF operation ensures high safety for machine and human body. 9. Use one AC input connection for several drives. Saves energy due to reduced need for supply-side power. Use centralized or distributed braking resistors for regenerative power. 10. Computer interfacing optional. 	

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LAMFI

Controls

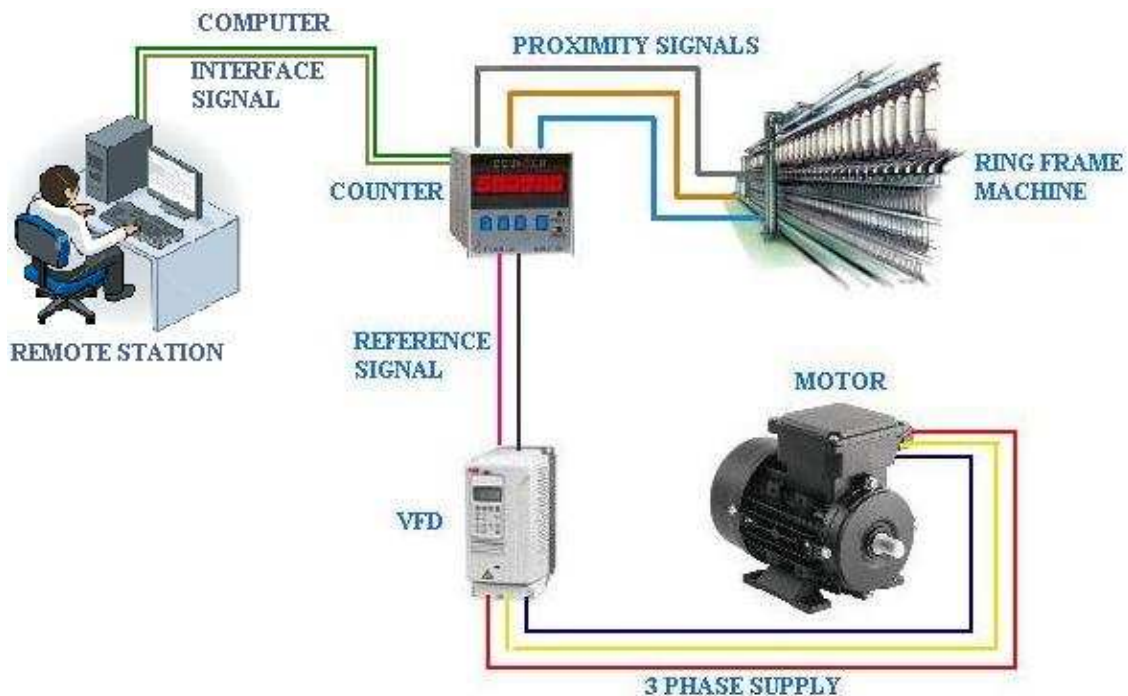
6. ABB MAKE VFD WITH LAMFI MAKE SPINNING CONTROLLER

INTRODUCTION:

In this modern world the demand of yarn is high. To overcome the demand we should increase the production of yarn. For this LAMFI introduces a system to increase the yarn production with exciting machine itself. This system helps to increase the production with 0 yarn breaks. The production can be improved up to 10%.

WORKING PRINCIPLE:

Working principle of the system is shown in a simple diagram.



Here we are connecting a VFD with external counter to the main motor of the ring frame machine. 3 proximities are fixed in the ring frame machine to measure the spindle speed, front roller speed & doff signal. According to the proximity signals the counter will give the reference signal to VFD. According to the reference value the VFD will vary the frequency supply and give to motor. Now the motor speed will vary and the spindle speed also varied.

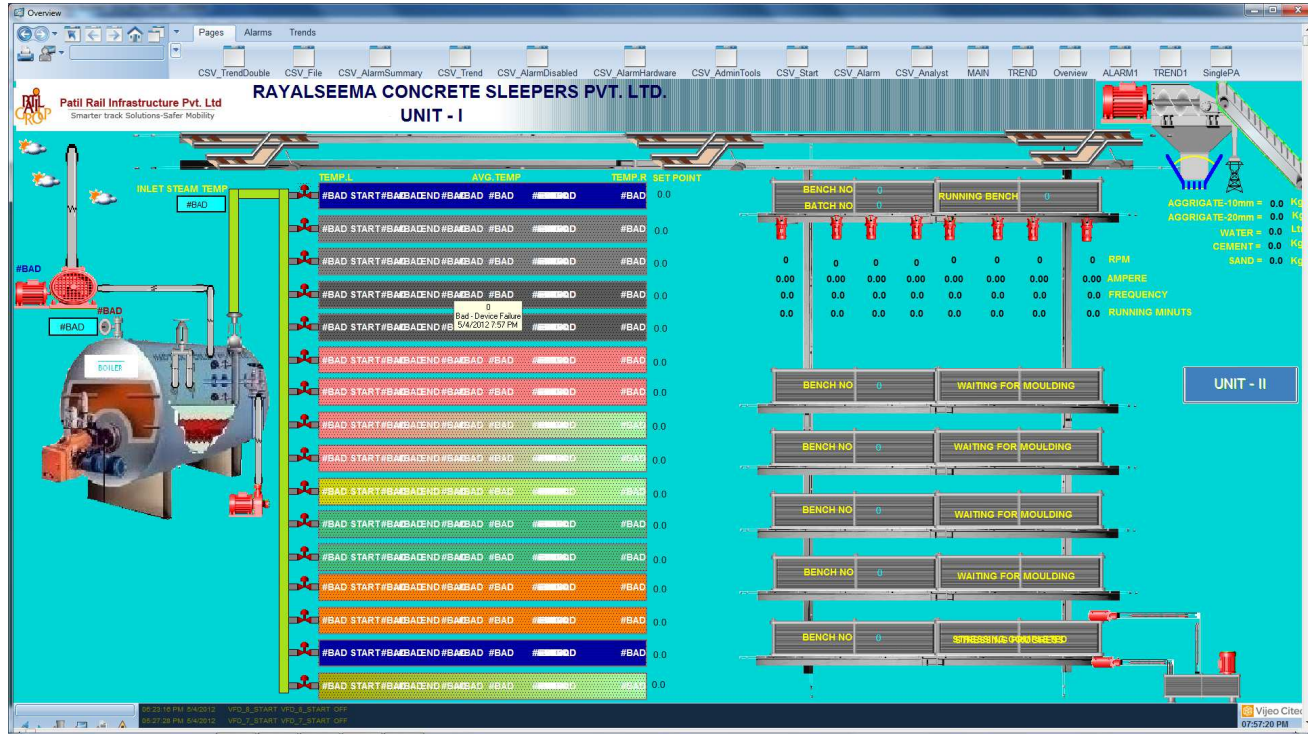
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7. TOTAL PLANT AUTOMATION FOR RAILWAY CONCRETE SLEEPERS PLANT:



We are giving total plant automation for Railway Sleeper concrete Plant. The above single screen shows you the Total Plant details like Vibrator, Mixture, Curing Chamber, Stressing etc., All the above are achieved by the combination of PLCs, HMIs & SCADA. The total plant details can be seen in internet from anywhere in the world also by using the separate IP Address. All the above can be seen & reports can be taken from Internet by using separate IP Address, Login ID & Password.

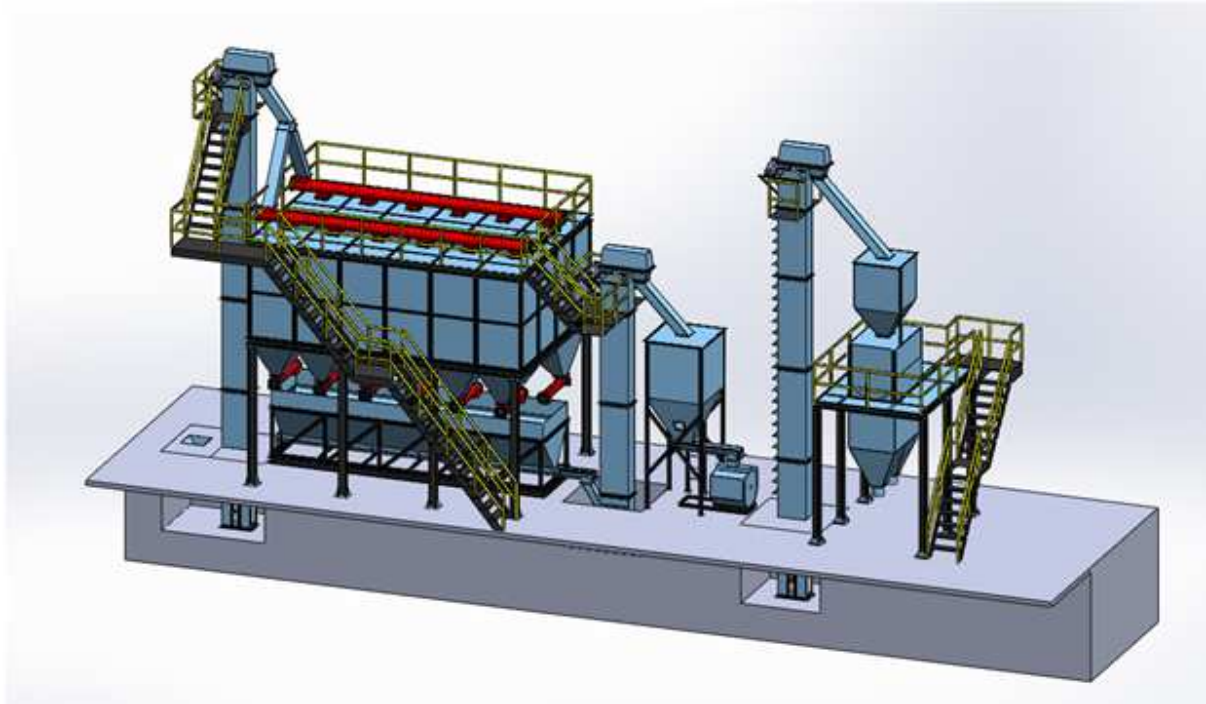
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8. TOTAL PLANT AUTOMATION IN CHICKEN POULTRY FEED MILL:



Here in feed mill we had made auto way batch for raw materials as per the set formulas. here we used 12 different Bins to Store the raw material. Each material will be loaded into the bin. And our system will weigh the material to its set value with help of screw rods. Then in will poured in to the grinder with help of a bucket conveyor. After Crushing the material it will stored into a storage tank with help of another bucket conveyor.

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9. TOTAL MACHINE AUTOMATION FOR RING FRAME MACHINE WITH AUTO DOFFER IN TEXTILE INDUSTRY:



HERE WE CONTROL THE TOTAL MACHINE WITH HELP OF 5 VFD'S HAVING IN BUILT PLC, ONE SCHNEIDER ELECTRIC MAKE TOUCH SCREEN, BOULDER MAKE SERVO MOTORS FOR DRAFTING END. IN THIS WE TAKEN A CHALLENGE JOB TO RECTIFY THE DEFECTS IN MANUFACTURING DESIGN. AND WE ACHIEVED THE SAME.

IN THIS WE ARE VERY PROUD TO INFORM THAT WE ARE THE ONLY PERSON IN THE WORLD THAT RUNNING A HOLE TEXTILE RING FRAME MACHINE WITHOUT ANY EXTERNAL PLC. AND WE DONE THE AUTO DOFF ALSO WITHOUT AN EXTERNAL PLC.

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10. PLC, HMI, VFD & PULLEY CONVERSION & REPLACENET FOR FOLLOWING MACHINES:

LR G5/1 RING FRAME MACHINE VFD WITH FLAT PULLEY CONVERSION:



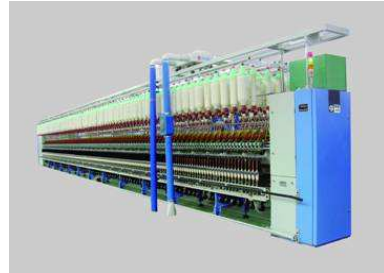
Replacement of PCBs from LOOMS and Converting into PLC Control.



ALL MODEL OF SUESSEN RING FRAME MACHINES:



ALL KIND OF CHINESE RING FRAME MACHINES:



REPLACEMENT OF RIBBON BREAKER BY VFD FOR AVOIDING RIBBON FORMATION IN GASING YARNS & ALL OTHER YARNS.



And Many More Projects

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System Integrator:

Beyond the projects LAMFI is the system integrator for the following products.

❖ **ABB Make VFD**



ABB drives brings together a world leading and recognised brand - ABB - the number one supplier for variable speed drives and a product range that is simply the widest available from any manufacturer. ABB drives are the reference for drives users the world over that signifies reliability, simplicity, flexibility and ingenuity, throughout the lifecycle of a drive.

❖ **ABB Make Low Voltage Switch gears**



Switch Gears – ACB, MCCB, SFU, MCB, Contactors, MPCB, APFC etc.

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❖ **ABB make Low Voltage Motors:**



ABB's Industrial performance motors offer the flexibility needed by most of our OEM customers. All variant codes normally needed by OEM customers are available. Motors full fill IE2 efficiency class requirements.

❖ **Bonfiglioli Vectron VFDs**



A full series of flexible solution drives that are versatile and extremely easy to use, featuring control for high performance and unbeatable advantages in their scalability and compact size.

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Bonfiglioli Vectron Servo Drives



A full series of solution & servo drives; compact and flexible, dedicated both to high demanding industrial automation systems and to motion control architectures, in match with Bonfiglioli servo motors.

❖ Bonfiglioli Vectron make Photovoltaic inverter



Flexible, efficient, long-lived

In the power range from 280kWp to 1190kWp, Bonfiglioli offers solar inverters of the RPS450-TL range without internal transformers. This is the most cost and yield optimal solution for photovoltaic systems of moderate to large output. The modular construction allows a perfect adjustment of the inverter to the respective solar generator and increases the availability of the system. The right size of inverter can be selected from the pre-defined and cost-optimised combinations. Overall systems of up to 1.19 MWp can be flexibly constructed from individual inverter modules, with nominal outputs of 140kWp and 170kWp. The RPS450TL solar inverters are designed for IT networks and can be attached directly to the low -voltage connections of the medium-voltage transformers. Network connection modules serve as an interface between the inverter modules. Additional low-voltage distribution boards are therefore not necessary.

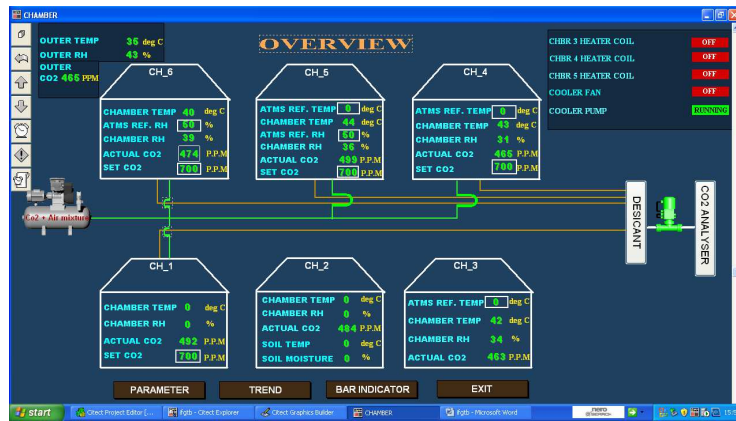
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SCADA:



- **Full-redundancy for reliable architecture:**
In factory automation and other mission-critical applications, hardware failure can lead to production loss and can result in potentially hazardous situations.
- **Powerful Graphics:**
The graphics capabilities of your SCADA system are a critical factor in its overall usability. SCADA lets you develop true colour, easy-to-use graphics that provide the operator with an intuitive, consistent user interface.

❖ **Schneider Electric PLC:**



More flexibility and openness...

Premium offers unrivalled performance, reducing cycle times and avoiding any need for optimization, thanks to the integration of more diagnostics and production data, freedom of communication and access to generic programming.

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❖ **RENU PLC WITH HMI:**



All features of Prism LCD Operator Interfaces.

1. Integrated Digital Inputs and Outputs with optional Analogue I/O
2. Digital Inputs and Outputs rated for 24 V DC
3. Analogue Inputs for RTD, mV and mA. Analogue Output is 4-20 mA
4. Inputs connectable to PLC or used for internal program
5. Support for Ladder logic and Analogue control
6. High Speed Counters and Timers
7. Dual Port Support for connecting to a PLC / Printer / SCADA / Drive
8. Common Programming software for the entire HIO family.....FREE!!
9. IP65 design. CE and UL certified.

Touch Screen:



3.5" TFT (320 x 240 Pixels) Graphical Color Touch Screen (256 Colors), Two universal serial ports to connect PLC / Printer / Programming Port One USB port as Programming Port, One optional Ethernet port to connect PLC / Programming Port / Remote monitoring, 6 User defined function keys, Direct connection to most controller families including Mod bus RTU, Up to 65535 user definable screens (full size) or pop-up windows (partial size), Real Time Clock and Date, Real Time and Historical Alarms, Real Time Trending, Multilanguage (Unicode) support with Windows® fonts, Recipes, Bar graph, Backlight screen saver.

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❖ **DEEP SEA Make AMFR with Synchronization for DG:**



The DSE7520 is an Automatic Mains Failure Control Module designed to provide advanced load share functionality for diesel and gas generating sets that include non electronic and electronic engines. The module also provides excellent engine monitoring and protection features. The module monitors the mains (utility) supply and upon detection of a loss in power automatically starts the generating set.

The module's synchronizing functions include automatic synchronizing with built in synchroscope and closing onto dead bus. Direct and flexible outputs from the module are provided to allow connection to the most commonly used speed governors and automatic voltage regulators (AVRs). The module has the ability to monitor under/over generator volts, over current, under/over generator frequency, under speed, over speed, charge fail, emergency stop, low oil pressure, high engine temperature, fail to start, low/high DC battery volts, fail to stop, generator short circuit protection, reverse power, generator phase rotation error, earth fault protection, loss of speed signal, fail to open, fail to close, out of sync, MPU open circuit failure, negative phase sequence and loss of excitation.

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Few of Our Valuable Customer:

- **GEORGE GROUP OF PLANTS - INDIAN RAILWAYS SLEEPER PLANTS. CHENNAI**
- **PATEL RAIL INFRA STRUCTURES ETC., - INDIAN RAILWAYS SLEEPER PLANTS. HYDERABAD.**
- **DAYA ENGINEERING WORKS. GUWAHATI.**
- **KEAS CONTROL SYSTEMS - MAHINDRA & MAHINDRA GENSET MANUFACTURER.**
- **PARLE G BISCUITS - PATWARY BACKERS. - MADURAI**
- **ANNAM FEEDS GROUP OF COMPANIES - NAMAKKAL.**
- **CAUVERY FEEDS, NAMAKKAL**
- **SNM POULTRY FEEDS, TRICHENGODU**
- **IFGTB - GOVERNMENT OF INDIA.**
- **IPC BANGALORE .**
- **SAMBANDAM SPINNING MILLS. SALEM**
- **MILLITEX ENGINEERS & SERVICES. KOLHAPUR**
- **STANDARD EQUIPMENTS. KOLKATTA.**
- **GILLINDAR DASS ATRIBUTES. KOLKATTA.**
- **KERALA TEXTILE CORPORATION. TRIVANDRUM.**
- **KOTTAYAM TEXTILES, KOTTAYAM.**
- **SHINER SACKS - RASIPURAM.**
- **AE Crushers, Coimbatore & Trichy.**
- **ISCO Track Sleepers. Badihatu Rajasthan.**

Few of Our Overseas Customers:

- **ICS - Senegal - West Africa.**
- **Little Star Spinning Mills. Bangladesh.**
- **ANQARA Group of companies, Sharjah - United Arab Emirates.**
- **Karma Feeds, Phuentsholing - Bhutan.**

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