



Grit Automation & Control Solutions Pvt.Ltd.

Grit Automation And Control Solutions Pvt. Ltd. is a leading provider of industrial automation solutions, catering various industries. With a focus on Innovation and Integration, we strive to deliver cutting-edge products and services to our clients.

OUR COMPETENCIES :

- Engineering & Design of Automation Solutions with Automation products like PLC/SCADA/HMI/DCS/VFD /Auto CAD / E Plan Control Panel Design etc.
- Manufacturing and Supply of Automation panels (System / Marshalling), LT Control Panels (PCC / MCC, IMCC) PLC Control system panel etc.
- Supply of Instrumentation & Bought-out items
- Engineering Services related to the PLC Systems, System Integration, Automation Systems, Auxiliary Systems etc.
- Value Added Services like Energy / Process Data Management & Reporting
- Vision System from Cognex, Keyence, Omron for various on-line inspection applications.
- Retro-fittment of Old Automation Systems with / without PLC / Drives to Advanced & Latest Automation Systems with PLC / Drives.

IoT/Industry 4.0 Implementation (Cloud based Solution for machine/line/plant data analysis, Software, and Hardware).

SALES PARTNERS



MATRIX350 SMART CONVEYOR DRIVE

220V IPH | 0.4-2.2KW
380V 3PH | 0.75-4KW

ABOUT PRODUCT

- * Standard configuration STO safety torque off function
- * Support SVC/ scalar control
- * Support permanent magnet synchronous/asynchronous motor control
- * Standard C3 filter
- * Standard configuration of magnetic flux braking function



MATRIX900 SOLAR DRIVE

220V | 0.75KW-2.2KW
380V | 0.75KW-22KW

- * Support 220-440VAC
- * Hybrid Power Input
- * Water Tank Control Mode
- * Supporting Solar & grid Power for Day & Night Mode
- * MAX SOLAR Power Tracking Efficiency Reaches 99.9% MPPT
- * Multi Meter Display (Current, voltage, KW/h water Flow)
- * Multi Protection (pump Over Temperature, Pump Dry Run, Pump Overload)
- * DC Support (250V to 600V)



MATRIX9000 Medium Voltage Variable Frequency Drive

3KV,6.6KV,11KV
250KW to 20000 KW

ABOUT PRODUCT

- * Power Unit By pass Operation
- * Restart with Speed Tracking
- * Safe resonance Avoidance
- * Automatic Flux Optimaization
- * Start with full torque at low Speed
- * Surge Absorption Capacity for Power Protection
- * Power Loss ride though and Power failure Recovery Features
- * Infaliable Power Supplied by Control Power Supply



PATLITE

TOWER LAMP



High Quality LED Industrial Tower lamp with Superior Brightness. Available in modular type, High Volume 85db/300mm Buzzer, AC/DC Supply, Extendable from One to Five Stacks, CEO Rosh, UKCA & Certification

Highlights :

A56mm
High Bright LEDs
Direct Or Pole Mount
Prizm-Cut Lenses For High Brightness

5 Lens Colors
Loud Buzzer Up to 85db
One To Five Stack Light Models

* Process Control Projects:

- Continuous Process Control: Programming PLCs to regulate parameters such as temperature, pressure, flow rate in manufacturing processes.
- Batch Process Control: Controlling sequences for batch production, where specific steps need to be executed in a particular order.

* Motion Control Projects:

- Robotics Control: Programming PLCs to control robotic arms or automated guided vehicles (AGVs) movements.
- Conveyor Control: Managing the speed, direction, and operation of conveyor belts in manufacturing or distribution systems (TT, PRB, RB, TTPRB)

* Machine Control Projects:

- Automated Machinery: Controlling the operation of machines such as presses, drills, or lathes in manufacturing settings.

* Energy Management Projects:

- Power Distribution: Monitoring and controlling energy usage, switching, and distribution within facilities to optimize efficiency.

* SCADA Integration Projects:

- Supervisory Control and Data Acquisition: Integrating PLCs with SCADA systems for real-time monitoring, data acquisition, and centralized control of industrial processes.

* Remote Monitoring and Control Projects:

- IoT Integration: Using PLCs with IoT devices for remote monitoring and control of industrial equipment, enabling predictive maintenance and performance optimization.

* Automated Testing Projects:

- **Quality Control:** Programming PLCs to automate testing procedures in manufacturing to ensure product quality and consistency.
- Barcode and QR Code Verification System
- **Description:** Develop a system that uses vision technology to read and verify barcodes or QR codes on products or packaging. The PLC processes the information for inventory management or traceability purposes.

* Vision-Based Defect Detection

Description: Develop a system that detects and classifies defects in manufactured products using high-resolution cameras and image analysis techniques. The PLC triggers corrective actions based on detected defects.

* Quality Assurance Vision System

Description: Implement a vision system coupled with a PLC for comprehensive quality assurance in manufacturing. The system should verify product integrity, labelling accuracy, and packaging consistency.

* Key Features:

- **Label Verification:** Ensure correct labels are applied with accurate alignment and information.
- **Packaging Inspection:** Verify packaging integrity, seals, and correct orientation of products.

- **Colour and Pattern Recognition:** Identify products based on colour coding or specific patterns.

* Safety Control Projects:

- **Emergency Stop Systems:** Implementing safety protocols to ensure rapid shutdown of machinery in case of emergencies.
- **Safety Interlocks:** Using PLCs to enforce safety measures, ensuring equipment operates only under safe conditions.

* Heating, Ventilation, and Air Conditioning:

- PLCs regulate HVAC systems in buildings or industrial facilities to maintain comfortable and controlled environments.
- Example:** Programming a PLC to manage temperature, humidity, and air quality in a large office building based on occupancy and external weather conditions.

* Bar code QR code Verification system :

- **Barcode and QR Code Verification System**

Description: Develop a system that uses vision technology to read and verify barcodes or QR codes on products or packaging. The PLC processes the information for inventory management or traceability purposes.

VFD APPLICATION

* Industrial Pumping Systems

Application: VFDs control the speed of centrifugal pumps used in water distribution, wastewater treatment, and industrial processes. They adjust pump speed to match flow requirements, reducing energy consumption and wear on the pump.

* Conveyor Systems

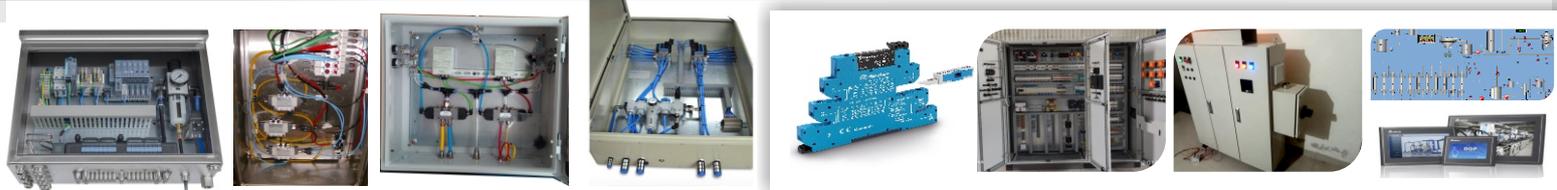
Application: VFDs regulate the speed and acceleration of conveyor belts in manufacturing, warehousing, and logistics operations. They enable precise control over material handling processes, improving efficiency and reducing product damage.

* Air conditioning.

Application: VFDs regulate the speed of fans and blowers in ventilation systems, industrial processes, and HVAC applications. They modulate airflow based on temperature, humidity, or air quality requirements.

* Compressors

Application: VFDs control the speed of compressors in refrigeration, air compression, and pneumatic systems. They adjust compressor output to meet varying demand, Optimizing.



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