

2016



PULSE
Pulse

Automation

Innovating Automation for Smart Industry
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1. ABOUT PULSE AUTOMATION

At **Pulse Automation**, we are dedicated to delivering cutting-edge automation solutions tailored to the unique needs of our clients. Specializing in the design and manufacture of **Special Purpose Machines (SPMs)** for the industries, we provide a wide range of automated systems that enhance efficiency, precision, and productivity.

Founded by **Vinod Banwala**, Pulse Automation has built a strong reputation for innovation and excellence. With a focus on **customer-centric solutions**, we partner with businesses to design and implement custom automation systems.

Our expertise extends beyond manufacturing machines—we also excel in integrating advanced technologies such as **Siemens and PLC & VFD systems**, which provide superior control, scalability, and energy efficiency. Moreover, we are leaders in the development of **HMI (Human-Machine Interface)** systems and **custom software** solutions, enabling seamless operation and real-time data collection to optimize your production lines.

2. SPECIAL PURPOSE MACHINES (SPMS)

At **Pulse Automation**, we specialize in designing and developing **Special Purpose Machines (SPMs)** tailored to meet the unique requirements of our clients, particularly in the **whole** sector. Our SPMs are custom-engineered to perform specific, high-precision tasks, ensuring that your production line operates with **maximum efficiency accuracy**, and **consistency**.

TYPES OF SPECIAL PURPOSE MACHINES (SPMS)



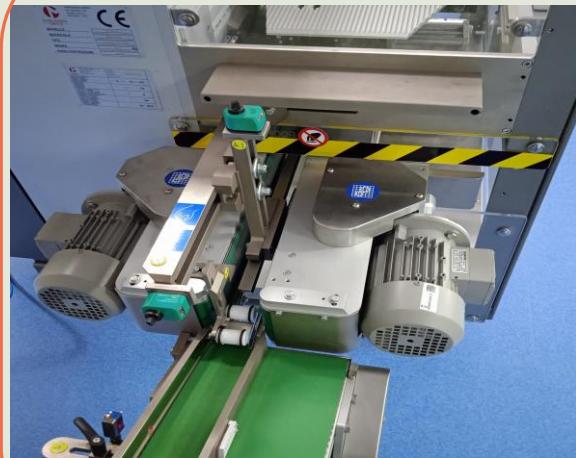
**AUTOMATIC LINK CUTTING
MACHINE**



**PIN & RUBBER INSERTION MACHINE
WITH LABEL PRINTING AND
SCANNING**



AUTO BLANK LOADING &
UNLOADING



SIDE GRIP CYLINDER



AUTO LENGTH MEASURING AND
PRESSING FOR SHOCK ABSORBER



BEARING LENGTH CHECKING
MACHINE



SERVO BASED PRESSING AND
EXPANSION



CIRCLIP INSERTING MACHINE

3. INTEGRATED AUTOMATION

Integrated Automation is the complete coordination of **mechanical systems, electrical panels, PLC control, sensors, actuators, software, and data communication** into **one unified, intelligent system**. Instead of machines working independently, all processes operate **synchronously**, sharing data and responding in real time.



OILING CONVEYOR WITH STACKING SYSTEM

FREE SPREAD INSPECTION MACHINE WITH REJECTION SYSTEM



4. CONVEYOR BELTS

At Pulse Automation, we specialize in designing and manufacturing custom conveyor systems tailored to meet the specific needs of our clients. Whether you require belt conveyors, roller conveyors, or modular solutions, we provide a comprehensive range of conveyors that seamlessly integrate into your existing processes.



End-to-End Conveyor Integration

Our expertise doesn't end with just conveyor manufacturing. We offer complete conveyor integration services, ensuring smooth connections between multiple conveyor systems. From design to installation, we ensure every part of the system works in perfect harmony to optimize your production flow.

5. ELECTRICAL PANELS

Advanced Electrical Panels and Accessories

In addition to machines, we supply high-performance electrical panels equipped with all the necessary accessories to ensure safe and efficient operation. Our panels are built to meet the highest standards, offering easy control, automation, and monitoring of your machines.



6. DEALING WITH SENSORS

Whether you're looking to add sensors to your current machines or need sensors integrated into new automation solutions, Pulse Automation provides **custom sensor integration services** tailored to your specific needs. Our experts ensure that sensors are strategically placed and programmed to work in harmony with other components like **PLCs** and **VFDs**, delivering **real-time monitoring**, **enhanced control**, and **increased productivity**.



We deal with various types of sensors, such as **proximity sensors**, **photoelectric sensors**, **pressure sensors**, **diffuse type sensor** and more, to enhance the functionality of your machines. By incorporating advanced sensor technologies.

7. DEALING WITH SMART CAMERA

At **Pulse Automation**, we specialize in integrating state-of-the-art **Cognex**, **Keyence**, **Banner**, **Baummer** and **GigE cameras** into our automation solutions. These advanced camera systems are key to providing **high-precision vision, quality control, and real-time data capture** in a wide range of industrial applications. By utilizing these trusted brands, we ensure your production line benefits from superior imaging technology, allowing for greater efficiency, accuracy, and performance.



8. AUTOMATION SOLUTIONS

At Pulse Automation, we leverage Siemens, Mitsubishi, PLC & VFD systems to deliver enhanced automation control and efficiency. These cutting-edge technologies enable seamless scalability and integration, ensuring that your production line operates at peak performance with minimal downtime. Our solutions are designed to adapt as your business grows, keeping you ahead in an ever-evolving industry.

Smart Industry Solutions with HMI and Custom Software
We are at the forefront of making the industry smarter by designing innovative HMI (Human-Machine Interface) systems and custom software solutions. These advancements enable intuitive operation, real-time monitoring, and data collection from all types of machines, providing actionable insights to streamline your operations. Our smart systems are designed to not only enhance machine functionality but also to empower businesses to make data-driven decisions, reducing costs and increasing efficiency.



9. SERVICE PROVIDER

At **Pulse Automation**, we go beyond delivering top-tier automation products—we provide **comprehensive services** that elevate the efficiency and performance of your entire production line. Our expert team offers smart solutions that seamlessly integrate with your existing systems, ensuring that every component works together to maximize productivity.

Smart Solutions for Enhanced Productivity

We specialize in adding **smart automation solutions** to your current setup, enhancing operational efficiency without the need for a complete system overhaul. By incorporating advanced **PLC programming** into your running machines, we can introduce intelligent controls and automation features that drive **higher throughput** and **optimized workflows**.

PLC Programming and Machine Synchronization

Our services also include advanced **PLC programming** for existing machines, ensuring they can easily synchronize with **add-on parts** or other new components. Whether you're expanding your production line or upgrading a specific part of your operation, we ensure that the entire system communicates and functions harmoniously, enabling **smooth integration** and **increased performance**.

10.WHY CHOOSE PULSE AUTOMATION?

Customized Solutions – Each machine is designed specifically for your application, ensuring a perfect fit for your production needs.

Precision and Speed – Our machines are built to enhance production speed without compromising on accuracy, helping you maintain the highest standards of quality.

Advanced Automation – Equipped with the latest **Siemens PLC & VFD** systems, our SPMs offer unmatched automation, reducing human intervention and increasing productivity.

Seamless Integration – Our SPMs can be seamlessly integrated into your existing production lines, providing smooth operation and optimal output

Tailored Solutions - Every conveyor system is customized to fit your operational requirements.

Complete Automation - Our electrical panels are designed to maximize control and efficiency.

After-Sales Support - We provide ongoing support and maintenance to ensure your system operates at its best.

Expert PLC Programming: Enhance your machines with tailored programming solutions for better automation control.



THANK YOU!

Contact and Enquiry

For more information or to request a custom solution, reach out to us via email at contact@pulseautomation.com or visit our website.

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