

मँकवंता



MACHVANTA

ABOUT US

Machvanta India Pvt Ltd

Is a leading Industrial Automation and Control Panel solutions provider, committed to delivering 100% reliable, innovative, and cost-effective automation services across all manufacturing sectors. We specialize in designing, engineering, manufacturing, and commissioning advanced automation systems that enhance productivity, safety, and operational efficiency. With a strong foundation of technical expertise, quality workmanship, and customer-first service, Machvanta has rapidly grown into a trusted partner for industries in India and abroad.



OUR MISSION

To deliver high-quality control panels, automation solutions, technical manpower and maintenance services that maximize customer productivity, reduce downtime and ensure safe, efficient and future-ready operations.

"Driving industrial excellence with innovative and reliable automation."

"Maximizing productivity through quality panels and dependable automation services."

"Empowering industries with efficient, safe and future-ready automation."



OUR VISION

To become India's most reliable and innovative automation and control panel company, transforming industries with smart engineering and world-class technology.



01

PROPOSITION



Expert team with multi-brand automation expertise



Customised panel design & engineering



Fast service response (online/offline)



Quality-focused manufacturing & testing



Cost-effective automation solutions



On-site commissioning and troubleshooting

Industrial Automation

►PLC/SCADA System Integration

PLC/SCADA integration is a process where Programmable Logic Controllers (PLCs) communicate with a SCADA (Supervisory Control and Data Acquisition) system to monitor and control industrial processes in real time.

Key Points:

- ◊ PLC handles field-level automation: controls machines, reads sensors, runs logic, and executes commands.
- ◊ SCADA provides a central control interface with live monitoring, alarms, trends, and data logging.

► Custom Control Systems

A Custom Control System is a specially designed automation solution created to meet the unique requirements of a specific machine, process, or industry. Unlike standard systems, custom controls offer flexibility, high performance, and precise integration with existing equipment.

Key Features

- ◊ Designed as per client's exact application
- ◊ Uses PLC, HMI, SCADA, drives, sensors, and communication protocols
- ◊ Fully customizable logic, interface, and hardware
- ◊ Integrates with old or new machines
- ◊ Delivers higher accuracy, efficiency, and safety

Applications

- ◊ Special Purpose Machines (SPM)
- ◊ Packaging, bottling, assembly lines

► Conveyor Line Automation

Conveyor line automation streamlines material movement, reduces manual handling, and ensures faster, safer and more efficient production flow. It improves accuracy, cuts downtime, and increases overall productivity across manufacturing and packaging operations.

Key Features

Continuous Material Flow – Minimizes delays and bottlenecks

High Speed & Accuracy – Ensures consistent production output

Customizable Design – Belt, roller, chain, modular types

Smart Sensors & PLC Control – Auto-sorting, counting & routing

Applications

- ◊ Automobile Assembly Lines
- ◊ Food & Beverage Packaging
- ◊ Pharmaceutical & FMCG Manufacturing
- ◊ Logistics & Warehousing

► Process Control Solutions

Process control is the backbone of modern industrial automation.

It ensures that manufacturing and production processes run efficiently, safely, and consistently by maintaining critical parameters like temperature, pressure, flow, level, speed, and quality within desired limits.



Key Features

- ◊ Real-time monitoring & control
- ◊ Advanced PLC/SCADA integration
- ◊ Improved accuracy & stability
- ◊ Energy and cost efficiency
- ◊ Enhanced safety & reliability

Applications

- ◊ Chemical & pharma plants
- ◊ Food & beverage processing
- ◊ Oil & gas operations
- ◊ Water treatment systems
- ◊ Power & utility plants

► SPM & SBM Integration

SPM (Special Purpose Machine) and SBM (Servo-Based Machine) integration in packaging systems helps achieve high speed, accuracy, and fully automated production.

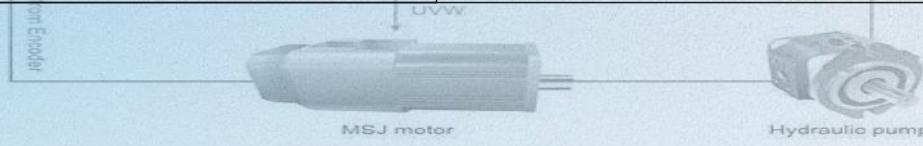
- 1. Product Feeding:** Servo motors feed products with precise speed & synchronization.
- 2. Material Handling:** SPM modules handle cutting, forming, sealing, labeling, sorting, etc.
- 3. Servo Synchronization:** SBM controls motion profiles—ensures smooth, jerk-free, and high-accuracy operations.
- 4. Automatic Changeover:** Program-based recipe change for different packet sizes & products.
- 5. Real-Time Monitoring:** HMI & PLC integration for production stats, alarms, efficiency tracking.

Applications

- Food & FMCG Packaging | Pharma & Pouch Packing
| Bottle Filling/Labeling | Box/carton forming & sealing

► Servo & VFD System

Servo	VFD
<ul style="list-style-type: none">◊ Used for precise control of position, speed & torque.◊ Works with servo motor + servo drive + encoder feedback.◊ Ideal for high-accuracy, high-speed applications.	<ul style="list-style-type: none">◊ Used for speed control of 3-phase induction motors.◊ Controls motor by varying frequency & voltage.◊ Ideal for pumps, fans, conveyors, blowers, mixers.



Services

► Industrial Control Panel Manufacturing

- ❖ PLC Panels : (Programmable Logic Controller)
- ❖ MCC Panels : (Motor Control Center)
- ❖ PCC Panels : (Power Control Center)
- ❖ APFC Panels : (Automatic Power Factor Control)
- ❖ LDB Panels : (Lighting Distribution Board)
- ❖ PDB Panels : (Power Distribution Board)
- ❖ VFD / Servo Panels : (Variable Frequency Drive)
- ❖ Sugar Industry Electrical Panels



► Drive & Motion Automation

Automates motor-driven processes for precise speed, position, and torque control in industrial machines.

Key Components:

VFD (Variable Frequency Drives): Control motor speed and energy consumption.

Servo Drives & Motors: High-precision motion control for robotics, SPM machines, and CNC.

Controllers: PLC / Motion Controller for coordination and automation logic.

Sensors & Encoders: Feedback for accurate position, speed, and torque monitoring.

Applications:

- ❖ Packaging, assembly, and material handling machines
- ❖ Conveyor systems
- ❖ Robotic arms & SPM machines
- ❖ Pumping & HVAC systems

► SCADA & IIoT Solutions

Monitoring Dashboards

- ❖ Real-time visualization of machines, processes, and production lines.
- ❖ Easy-to-read graphs, alerts, and status indicators for operators and managers.

Production Data Logging

- ❖ Automatic recording of machine & process data.
- ❖ Helps in quality control, reporting, and process optimization.

Energy Monitoring

- ❖ Tracks energy consumption of machines and plants.
- ❖ Identifies wastage and potential savings, improving efficiency.

Industry 4.0 System Upgrades

- ❖ Integration of IoT sensors, smart devices, and cloud-based analytics
- ❖ Enables remote monitoring, predictive maintenance, and data-driven decision-making.

► Control System Integration & Retrofitting

Upgrade old or obsolete PLC/Relay panels to modern automation systems.

Key Features:

- ❖ Replaces outdated relays with modern PLCs, HMIs, and SCADA systems.
- ❖ Integrates sensors, drives, and communication protocols for seamless operation.
- ❖ Improves efficiency, reliability, and monitoring of existing machines.
- ❖ Minimizes downtime with modular retrofitting approach.
- ❖ Ensures compatibility with Industry 4.0 & IoT systems.

► Machine Automation & SPM Solutions

Assembly Automation

- ❖ Automates manual assembly tasks for faster production.
- ❖ Increases accuracy, consistency, and throughput.
- ❖ Reduces labor cost and human errors.

Packaging Automation

- ❖ Automates packing, sealing, labeling, and boxing.
- ❖ Ensures uniform packaging quality.
- ❖ Speeds up production and improves safety.

Material Handling

- ❖ Automated conveyors, lifts, and robotic movement of materials.
- ❖ Reduces manual handling and workplace injuries.
- ❖ Optimizes factory layout and workflow efficiency.

Pick & Place Automation

- ❖ Robots or automated systems pick components and place them in desired locations.
- ❖ High speed, precision, and repeatability.
- ❖ Suitable for electronics, FMCG, and industrial manufacturing..

Electrical & On-Site Services

Industrial Wiring & Panel Installation

- ❖ Complete installation of control panels, MCC, PCC, PLC panels
- ❖ Ensures safe, organized, and standard-compliant wiring

Electrical Troubleshooting

- ❖ Fast fault diagnosis and repair of industrial electrical systems
- ❖ Reduces downtime and prevents recurring issues

Preventive Maintenance

- ❖ Regular inspection of machines, panels, and control systems
- ❖ Extends equipment life and ensures smooth operations

Commissioning Support

- ❖ Expert team for system startup and testing
- ❖ Ensures proper configuration and operational efficiency

Onsite / Remote Support (24x7)

- ❖ Immediate assistance for emergencies and operational issues
- ❖ Remote monitoring, guidance, and problem resolution

Technical Expertise-Machvanta India Pvt. Ltd.

Electricians:

Skilled in industrial wiring, panel installation, and maintenance for reliable operations.

PLC Programmers:

Expert in PLC logic, HMI/SCADA programming, and automation troubleshooting.

Design Engineers:

Professional panel and system designers, creating custom solutions for efficiency and safety.

Commissioning Engineers:

Ensure smooth startup, testing, and commissioning of machines and control systems.

Onsite/Remote Support Team:

24x7 assistance for troubleshooting, monitoring, and system optimization.

Why Choose Machvanta?

Complete Automation Under One Roof:

All types of control panels, drives, PLC, SCADA & industrial solutions in one place.

Fast Service Response:

Quick on-site and remote support to minimize downtime.

Customised Engineering Design:

Tailor-made solutions to match your specific industrial needs.

Skilled Technical Team:

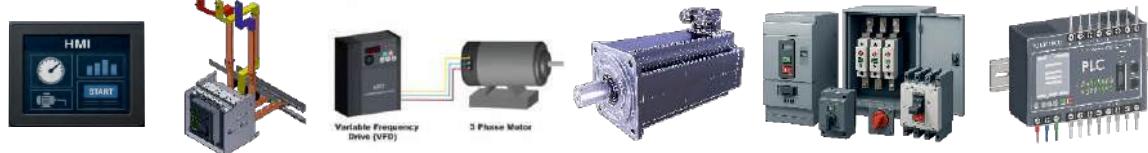
Experienced electricians, programmers, and engineers for smooth project execution.

Cost-Effective & Reliable Solutions:

High-quality products and services at competitive pricing.

Machvanta – Automation Materials

Machvanta provides all make automation materials, including PLCs, drives, sensors, HMI, switchgear and control components.



We supply multi-brand industrial automation products to meet urgent project, service and maintenance needs.



**MACHVANTA
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