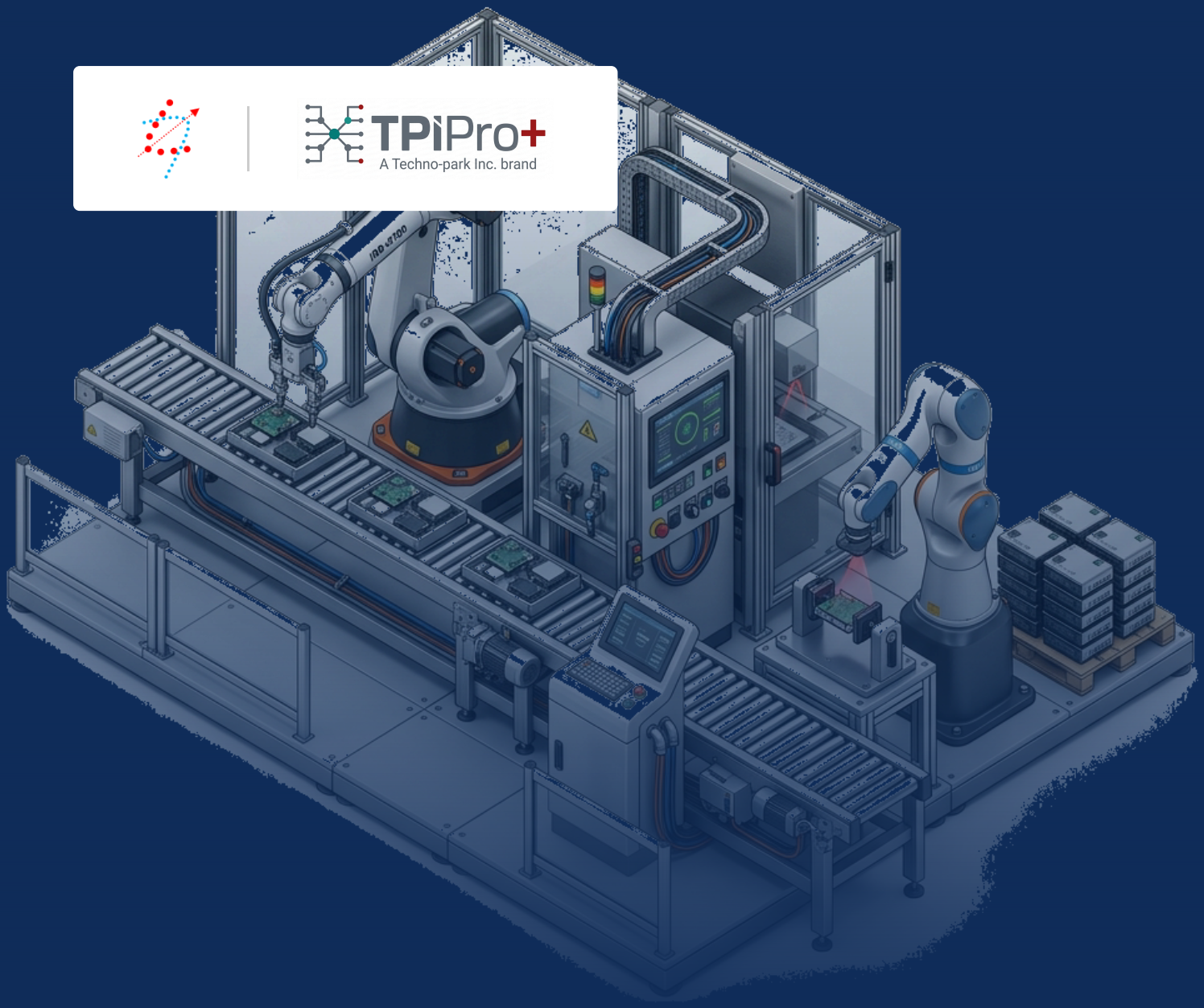
TPiPro+
A Techno-park Inc. brand



Architects of Automation.

Precision engineering, intelligent control systems, and unrivaled industrial sourcing.

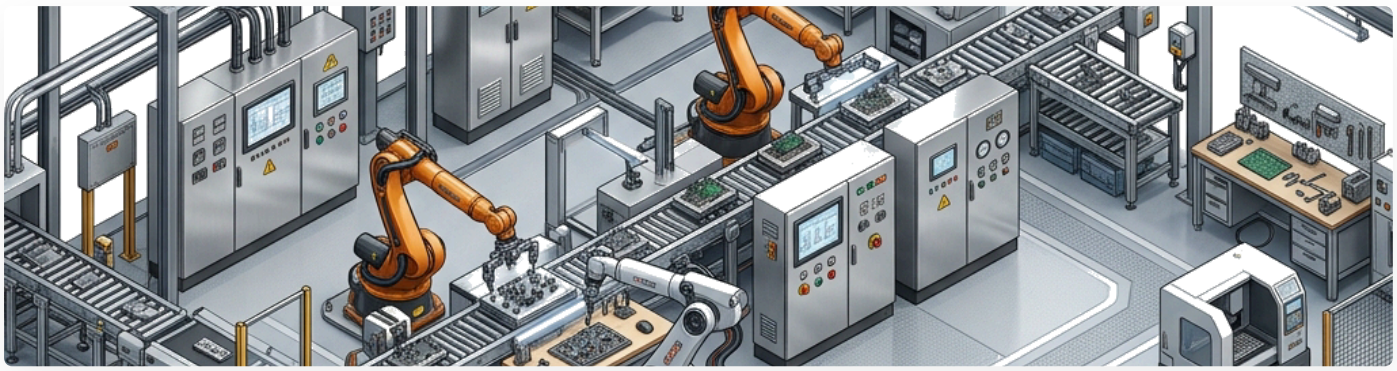
TRANSFORMING MANUFACTURING POTENTIAL.

"In an era where margins are measured in milliseconds and downtime costs thousands per hour, traditional maintenance is no longer enough. The future belongs to those who anticipate, automate, and optimize."

At Techno-park Inc., we do not merely react to industry changes; we engineer them. Our philosophy is rooted in proactive modernization. We believe that every production line, regardless of its age, possesses untapped potential waiting to be unlocked through intelligent integration.

We exist to bridge the gap between heavy mechanical infrastructure and cutting-edge digital control. By bringing together the brightest engineering minds and the most robust hardware in the world, we empower our clients to achieve unprecedented levels of throughput, safety, and operational excellence.

THE TPI LEGACY



For over 15 years, Techno-park Inc. has stood at the vanguard of industrial progress, evolving from a localized panel builder into a global powerhouse of automation engineering.

Forged in the Factory

Our roots are deep in the manufacturing floor. We understand the harsh realities of industrial environments—the heat, the vibration, the relentless pace. This foundational understanding informs every schematic we draw and every line of code we write.

Over the last decade and a half, we have successfully executed over 500 major automation projects. From modernizing archaic relay-logic systems in steel mills to deploying sub-millimeter servo architectures in pharmaceutical cleanrooms, our track record is built on tangible, high-impact results.

By The Numbers

15+
YEARS OF EXCELLENCE

500+
GLOBAL PROJECTS

24/7
RAPID RESPONSE

ENGINEERING METHODOLOGY

Success in automation is rarely an accident. It is the result of a rigorous, systematic approach to problem-solving. At Techno-park Inc., we deploy a proprietary four-phase engineering methodology to ensure flawless execution.

01. Discovery

Before we touch a schematic, we immerse ourselves in your process. We analyze production bottlenecks, safety vulnerabilities, and throughput data. We listen to the operators on the floor. This phase ensures that the solution we engineer solves the actual root problem, not just the symptoms.

02. Architecture

Our senior engineers architect the solution in a fully digital environment. We select the optimal hardware platforms, design the network topologies, and simulate the control logic. This phase is heavily collaborative, ensuring the proposed system aligns perfectly with your facility's operational goals and budget.

03. Implementation

This is where design becomes reality. Our technicians build and wire the physical panels to strict international standards (UL, CE). Concurrently, our software engineers write and test the PLC and HMI code. Finally, our deployment teams integrate the system on your factory floor, managing the mechanical and electrical installation with precision.

04. Lifecycle

Commissioning is not the end of our relationship; it is the beginning. We provide comprehensive operator training, detailed as-built documentation, and ongoing 24/7 technical support. Through remote monitoring and predictive maintenance algorithms, we ensure your new system operates at peak efficiency for decades.

THE TPIPRO+ ECOSYSTEM

Recognizing the critical vulnerability of modern supply chains, we built TPIPro+—a dedicated, highly optimized E-Commerce platform designed exclusively for industrial procurement.

Sourcing, Re-imagined.

TPIPro+ is not just a storefront; it is a direct pipeline to the world's leading industrial component manufacturers. We bypass traditional, slow-moving distribution networks to provide engineers and procurement managers with instant access to critical hardware.

When a production line halts due to a burned-out contactor or a shattered sensor, every minute counts. TPIPro+ features real-time inventory tracking, intelligent cross-referencing for alternative parts, and priority overnight shipping logistics.

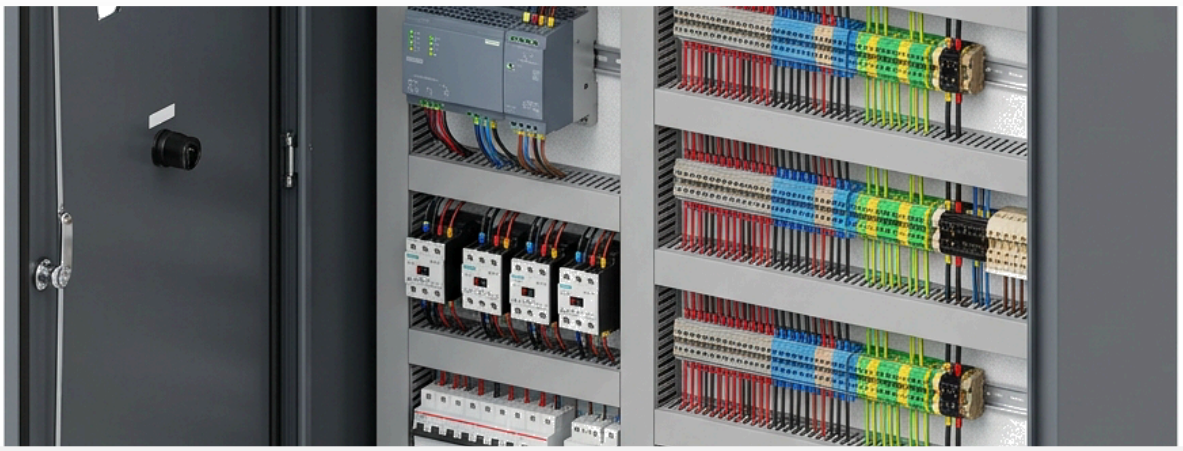
Platform Highlights

Massive Inventory: Access to tens of thousands of active SKUs across motion control, sensing, and logic.

Verified Quality: 100% genuine components sourced directly from OEMs. No counterfeit risks.

Rapid Fulfillment: Automated warehousing ensures orders are processed and dispatched with unprecedented speed.

AUTOMATION PANELS



The Nervous System of Industry

The control panel is the beating heart of any automated process. A poorly designed panel leads to erratic behavior, dangerous thermal issues, and diagnostic nightmares for maintenance teams. We engineer panels for absolute perfection.

Our design process utilizes advanced CAD software to optimize spatial layouts, thermal dissipation, and wire routing. Every wire is perfectly measured, meticulously labeled, and routed through industrial-grade trunking. We utilize premium terminal blocks, robust DIN-rail mountings, and highly reliable power supplies.

Before a panel ever leaves our facility, it undergoes a grueling Quality Assurance process. We perform point-to-point continuity checks, high-voltage insulation tests, and full simulated I/O testing.

Whether you need a compact junction box for remote sensing or a massive, multi-bay Motor Control Center (MCC) capable of driving an entire facility, our panel shop delivers unmatched craftsmanship and reliability.

PLC & MOTION PROGRAMMING

Intelligence & Precision

Hardware without intelligent software is just expensive metal. Our software engineering division specializes in writing robust, modular, and highly documented code for Programmable Logic Controllers (PLCs) and complex motion controllers.

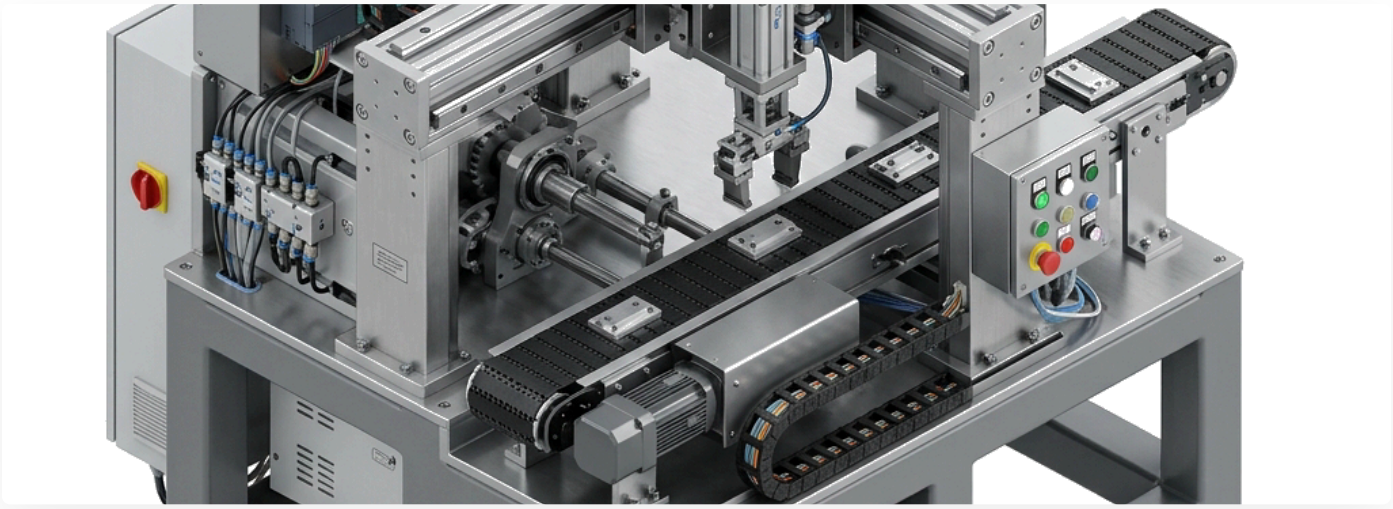
We program across all major international architectures, utilizing ladder logic, structured text, and function block diagrams. Our code is written with fault-tolerance in mind, ensuring that the system gracefully handles anomalies without catastrophic failure.

Advanced Human Machine Interfaces (HMIs) bridge the gap between complex machinery and human operators.

Intuitive HMI/SCADA Design

We design interfaces that operators actually want to use. By prioritizing situational awareness, clear alarm hierarchies, and ergonomic touch-targets, we dramatically reduce operator error. Furthermore, we integrate high-level SCADA systems to aggregate data across the entire plant floor, pushing critical metrics to enterprise ERP systems for deep analytics.

RETROFITTING & UPGRADES



Breathing New Life into Legacy Iron

Heavy mechanical infrastructure—stamping presses, extruders, rolling mills—often outlasts its electronic control systems by decades. Replacing these massive mechanical assets is a multi-million dollar capital expenditure.

Our retrofitting service provides a vastly superior ROI. We strip away the obsolete relays, archaic drives, and unsupported PLCs, and graft a cutting-edge, modern control architecture onto the existing mechanical frame.

The Retrofit Advantage

The results are transformative. A retrofitted machine benefits from modern safety standards (Safe Torque Off, Light Curtains), drastically improved cycle times via modern servo control, and seamless integration into modern plant networks.

Additionally, we specialize in **Obsolete Part Sourcing**. If a total retrofit is not feasible, our global network can track down rare, discontinued components to get your legacy machines running again.

CONTROL ARCHITECTURE

We supply and integrate the most robust processing hardware available on the industrial market, forming the unbreakable backbone of your facility's automated operations.

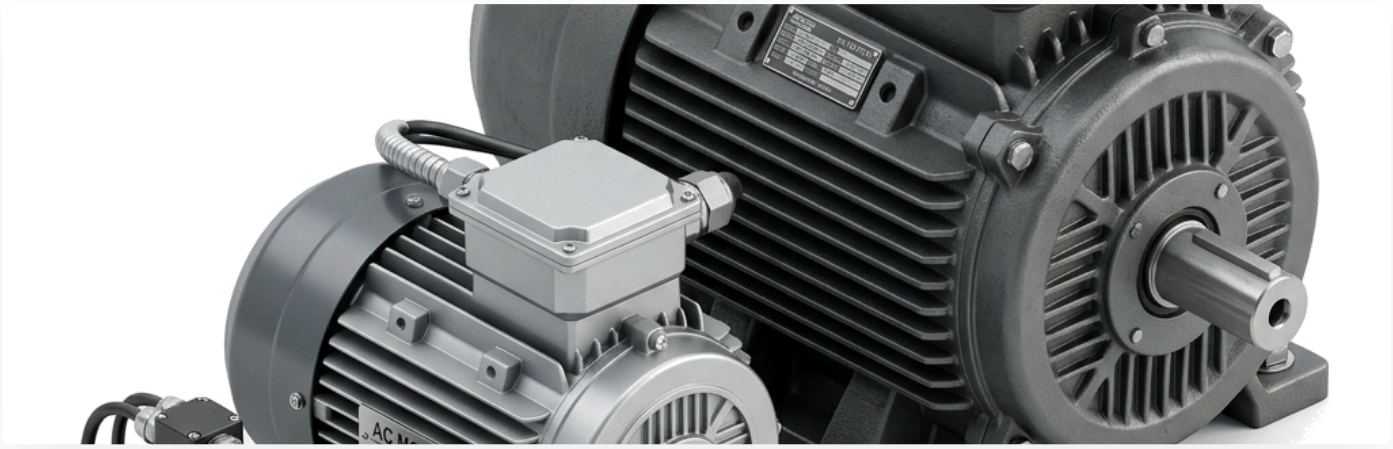
Programmable Logic Controllers

From highly compact micro-PLCs for standalone equipment to massive, redundant, rack-based PACs (Programmable Automation Controllers) designed to run entire chemical plants. We supply systems capable of sub-millisecond execution times, advanced mathematical floating-point operations, and seamless fieldbus communications.

Human Machine Interfaces

Ruggedized, industrial-grade displays. Built with IP65+ rated bezels to withstand dust, direct water spray, and chemical washdowns. Featuring high-luminance screens for visibility in brightly lit factories, and resistive or capacitive touch technologies designed to work perfectly even when operators are wearing heavy industrial gloves.

MOTION DYNAMICS



Industrial Motors & Drives

Reliable motion is non-negotiable. We supply heavy-duty, high-efficiency AC and DC motors built to endure relentless continuous duty cycles. Coupled with our advanced Variable Frequency Drives (VFDs), we provide total control over motor acceleration, torque, and deceleration, drastically reducing energy consumption and mechanical wear.

Precision Servo Systems

When positioning must be measured in microns, and acceleration measured in G-forces, we deploy advanced closed-loop servo architectures. Our servo motors and high-speed drives utilize absolute encoders and advanced vibration-suppression algorithms to deliver blistering speed with flawless accuracy—essential for CNC routing, robotic arms, and high-speed packaging.

THERMAL & SENSING

A control system is only as intelligent as the data it receives. We provide the sensory organs required for your machines to perceive and interact with the physical world.

Advanced Sensing Arrays

We supply a comprehensive catalog of industrial sensors. From high-speed photoelectric lasers capable of detecting objects at hundreds of feet per minute, to inductive proximity sensors that detect metallic presence through solid barriers. We also provide complex vision systems for automated quality control and barcode reading.

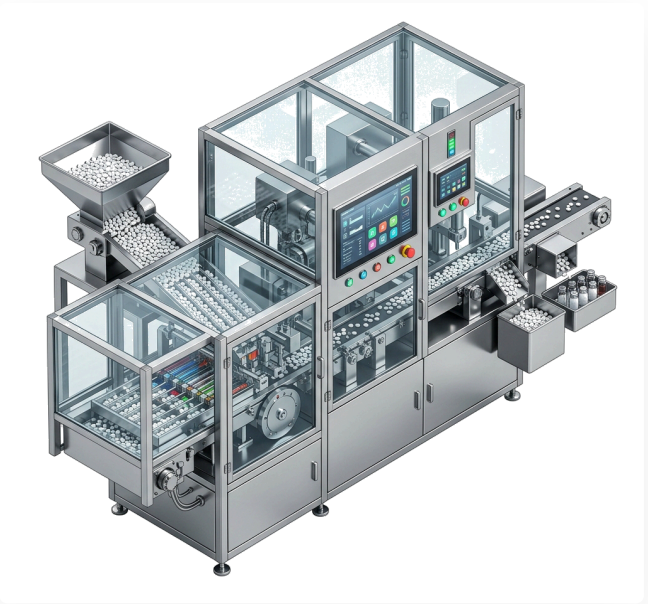
Industrial Thermal Engineering

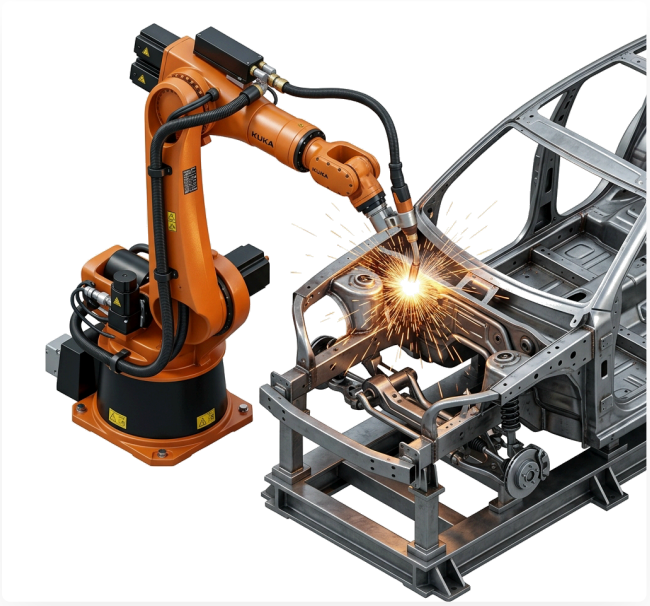
Precise thermal regulation is vital for plastics, food processing, and metallurgy. We manufacture and distribute high-watt-density cartridge heaters, robust band heaters, and custom tubular banks. Paired with our highly accurate Thermocouples and PT100 RTDs, we guarantee flawless temperature profiles across your entire process.

PHARMA & AUTOMOTIVE

Pharmaceuticals

In the pharmaceutical sector, precision and compliance are matters of public safety. We engineer clean-room certified automation systems that adhere strictly to FDA 21 CFR Part 11 standards. Our architectures guarantee infallible batch tracking, pristine environmental control, and automated serialization for complete supply chain traceability.

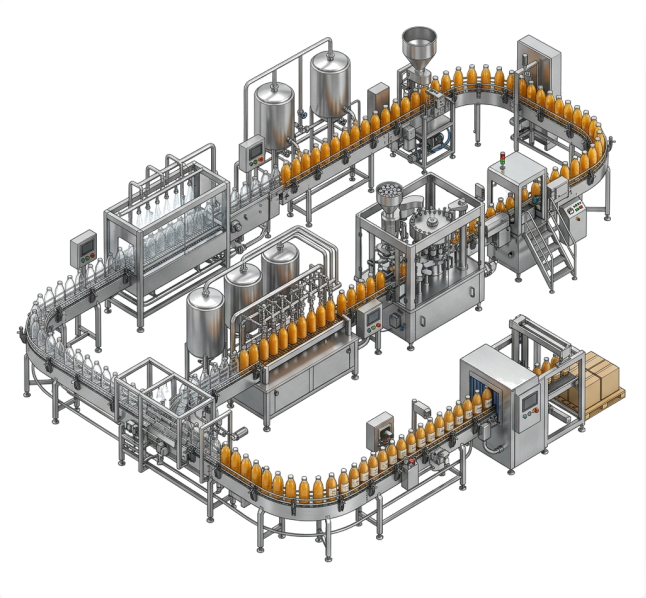




Automotive Manufacturing

The automotive industry demands relentless throughput and extreme synchronization. We deploy complex, multi-axis robotic integrations, high-speed vision inspection systems, and massively parallel PLC networks to ensure components move flawlessly from the stamping presses all the way through the final assembly line.

FOOD & HEAVY MACHINERY

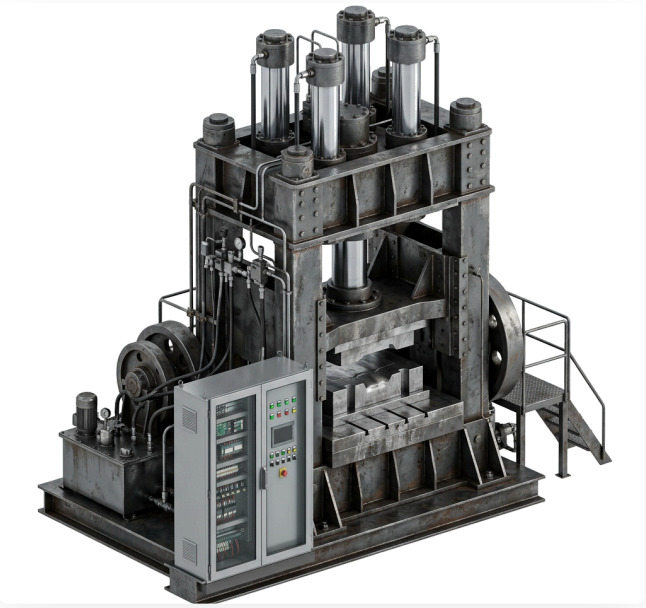


Food & Beverage

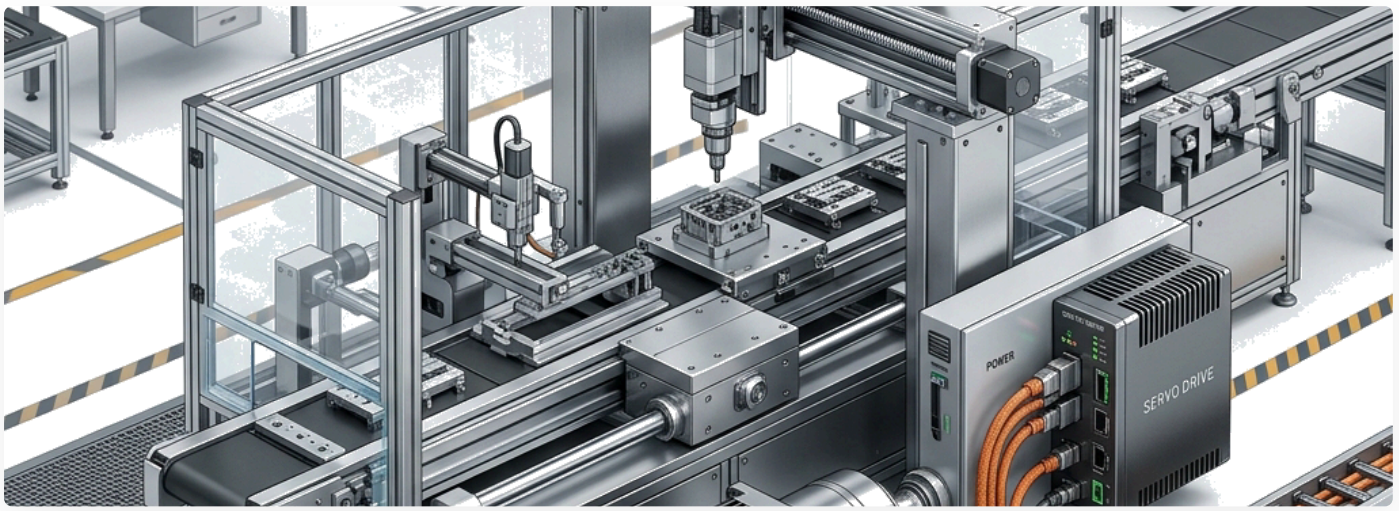
Speed and sanitation define the food processing sector. We implement IP69K-rated washdown sensors, hygienic stainless-steel enclosures, and hyper-fast packaging logic. Our systems are designed to eliminate contamination risks while pushing packaging lines to their absolute physical limits.

Heavy Manufacturing

When dealing with molten metal, massive extruders, and multi-ton stamping presses, the hardware must be indestructible. We build armored control panels designed to survive extreme ambient heat, massive electromagnetic interference, and bone-rattling vibration, ensuring your heavy assets never stop moving.



UNCOMPROMISING QUALITY



In industrial environments, a single point of failure can halt a factory and cost millions. That is why our commitment to quality borders on the obsessive. We do not hope our systems work; we prove it mathematically and physically.

Rigorous Simulation

Before any physical assembly begins, our code is run through extensive virtual simulators. We subject the logic to millions of randomized fault conditions, ensuring the system fails safely and alerts operators instantly when faced with impossible mechanical constraints or sensor failures.

Physical Stress Testing

Our completed panels are subjected to intense scrutiny. We conduct high-voltage "hi-pot" testing to ensure absolute insulation integrity. We run thermal imaging cameras across the panel under heavy load to identify potential heat pockets, and we physically test every single relay, contactor, and terminal before shipment.

GLOBAL REACH, LOCAL SUPPORT

Always Online. Always Ready.

Techno-park Inc. operates on a global scale. We have successfully deployed automation architectures across multiple continents. However, our vast reach never dilutes our localized, personal support.

We maintain a fleet of rapid-response field engineers ready to deploy directly to your facility in the event of a catastrophic mechanical failure. Armed with advanced diagnostic tools and access to the TPIPro+ logistics network, they resolve issues rapidly.

Furthermore, our dedicated remote-support team monitors connected facilities 24/7. Using secure, encrypted industrial VPNs, we can instantly dive into a PLC's logic from across the world, diagnose a software anomaly, and push a live update in minutes.

OUR TRUSTED BRANDS

We refuse to compromise on quality. That is why Techno-park Inc. and TPIPro+ exclusively source, integrate, and distribute components from the world's most elite industrial automation manufacturers.

Allen-Bradley by ROCKWELL AUTOMATION
SIEMENS
ABB
Schneider Electric
MITSUBISHI ELECTRIC
OMRON
DELTA
YASKAWA
KEYENCE
SICK Sensor Intelligence.
Fuji Electric
Panasonic
Autonics
WAGO
SCHUNK
Bharat Bijlee

PARTNER WITH THE BEST.

Elevate your facility. Contact our engineering team today to discuss your next modernization project.

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