

AUTOBLOCKS

Modular Automation Solutions

AUTOBLOCKS™ THE FUTURE OF MODULAR AUTOMATION



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ABOUT MODULAR AUTOMATION

AutoBlocks™: Streamlining Custom Machine Building with Modular Automation

AutoBlocks™ revolutionizes custom machine building through standardized, modular solutions, reducing engineering time, risk, and lead times. Each AutoBlock is a pre-engineered unit for unique precision assembly and inspection needs. Our user-friendly software offers centralized control, part tracking, and safety. AutoBlock modules accelerate system development, lower engineering hours, and reduce risk. Maintenance is simplified with standard blocks and trained technicians. Modular flexibility supports future expansion or repurposing. Cost-efficient modules streamline machine integration, freeing engineers to focus on process automation, not machine building.



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THE INDUSTRY PROBLEM. WHY TRADITIONAL AUTOMATION FAILS?

TRADITIONAL AUTOMATION CHALLENGES

- Long development cycles (months to years).
- High costs due to custom engineering.
- Complex integration across multiple vendors.
- Rigid systems that lack scalability and adaptability.
- Restricted by skill monopoly (Software “expertise” bottle necks)

How much are these issues costing your company?

HOW THESE CHALLENGES AFFECT YOUR BUSINESS

- Operational Inefficiency – Unused automation cells = lost productivity.
- Financial Losses – Delays = missed deadlines & increased costs.
- Rigid Systems – Traditional machines can’t adapt to new needs.
- Competitive Disadvantage – Other companies are automating faster.

What if your automation system could instantly scale without costly redesigns and integration?



WHAT IF THERE WAS A BETTER WAY?

THE AUTOBLOCKS™ SOLUTION

- Imagine cutting your automation deployment time by 50%.
- What if adding automation took minutes instead of months?
- What if Engineers didn't need coding experience to set up automation?



Picture: AutoBlocks Products and Solutions.

Would that change how you think about automation?

INTRODUCING AUTOBLOCKS, THE FUTURE OF AUTOMATION

Autoblocks is a game-changing modular automation platform that streamlines custom machine building with standardized, plug-and-play solutions.

- Pre-engineered automation blocks reduce engineering time, risk, and lead times.
- No-code integration makes advanced automation accessible to all.
- Seamless compatibility with robots, sensors, safety devices, vision systems, and third-party devices.
- Modular design enables easy scaling and repurposing of automation cells.



Picture: AutoBlocks Control Block

AutoBlocks allows you to focus on production – not machine building

CORE FUNCTIONS & KEY FEATURES

FUNCTIONS AND FEATURES

- Faster ROI – Cut deployment times in half and lower costs by eliminating custom integrations.
- Plug-&-Play Compatibility – Works with most robots, vision systems and peripherals.
- Seamless Industrial Control – Logic, Safety, and motion in one streamlined platform.
- Cloud-Enabled & Remote Monitoring – SQL Database, web server, remote diagnosis.
- Scalability at its Core – From small batch automation to full production lines.
- Integrated Safety Features – SIL3, Ple, Category 4 safety standards built-in.
- No-code Integration – AutoCode simplifies programming.



Picture: Control Block



Picture: AutoBlocks Advanced Teach Pendant

About The AutoBlocks Control Block: The AutoBlocks™ Control Block is a comprehensive machine controller that integrates logic, safety, and motion control into a single platform. Supporting up to 6 axes of coordinated motion, it simplifies the management of industrial robots, vision systems, safety devices, and sensors. Its no-code, plug-and-play architecture allows for easy scalability, making it ideal for applications ranging from small batch processes to fully automated production lines.

About The AutoBlocks: Teach Pendant is an essential interface designed for intuitive and efficient operation of the Autoblocks Control Block system. It combines advanced functionality with user-friendly features, enabling seamless interaction with automated systems for programming, monitoring, and control tasks.

AutoBlocks Is the perfect balance of power, flexibility, and simplicity.

BEST USE CASES & INDUSTRIES

WHO BENEFITS FROM USING AUTOBLOCKS?

- OEMs & Machine Builders – Reduce development time and complexity.
- System Integrators – Faster deployment with modular, standardized solutions.
- Manufacturers – Improve production efficiency with automation-ready cells.
- Automation Engineers – No-code setup enables faster implementation.



Picture: Automation, Simplified, Powered by AutoBlocks™.

INDUSTRIES THAT BENEFIT THE MOST

- Automotive & Aerospace (material handling, robotic screw fastening).
- Electronics & PCB Assembly (robotic soldering, PCB Depaneling, laser marking, vision inspection).
- Medical Devices (precision dispensing, automated assembly)
- Industrial Manufacturing (Material Handling)

AutoBlocks means endless possibilities!

HOW AUTOBLOCKS INTEGRATES WITH THIRD-PARTY SYSTEMS

BUILT FOR SEAMLESS CONNECTIVITY

- Industrial Protocols - Ethernet/IP, MODBUS TCP, CANopen / CANLayer2, MQTT, I/O (Analogue/Digital).
- Robots Supported - EPSON, Universal Robots, Fanuc, Gantry Robots, and more.
- Vision Systems Supported – Cognex, Keyence, Zebra, and custom setups.
- Safety Devices – Light curtains, interlocks, emergency stops.
- Conveyors & Motion Systems – Fully integrated motion control



No more integration headaches – just connect & go.



Picture: AutoBlocks Rotary Soldering Cell

COMMON PAIN POINTS & HOW AUTOBLOCKS SOLVES THEM

BEFORE AUTOBLOCKS

- Long automation deployment times.
- High labor costs (Engineering & Programming)
- Difficulty integrating multiple devices.
- Inflexible, non-scalable systems.
- Standardization - Software “expertise” bottle necks.



Picture: Five 'Control Block' Controllers

WITH AUTOBLOCKS

- Plug-&-Play modules reduce lead times by 50%.
- No-code platform eliminates the need for specialized engineers.
- Pre-configured templates make device integration effortless.
- Modular design ensures long-term scalability.

How much time & money could you save by switching to Autoblocks?

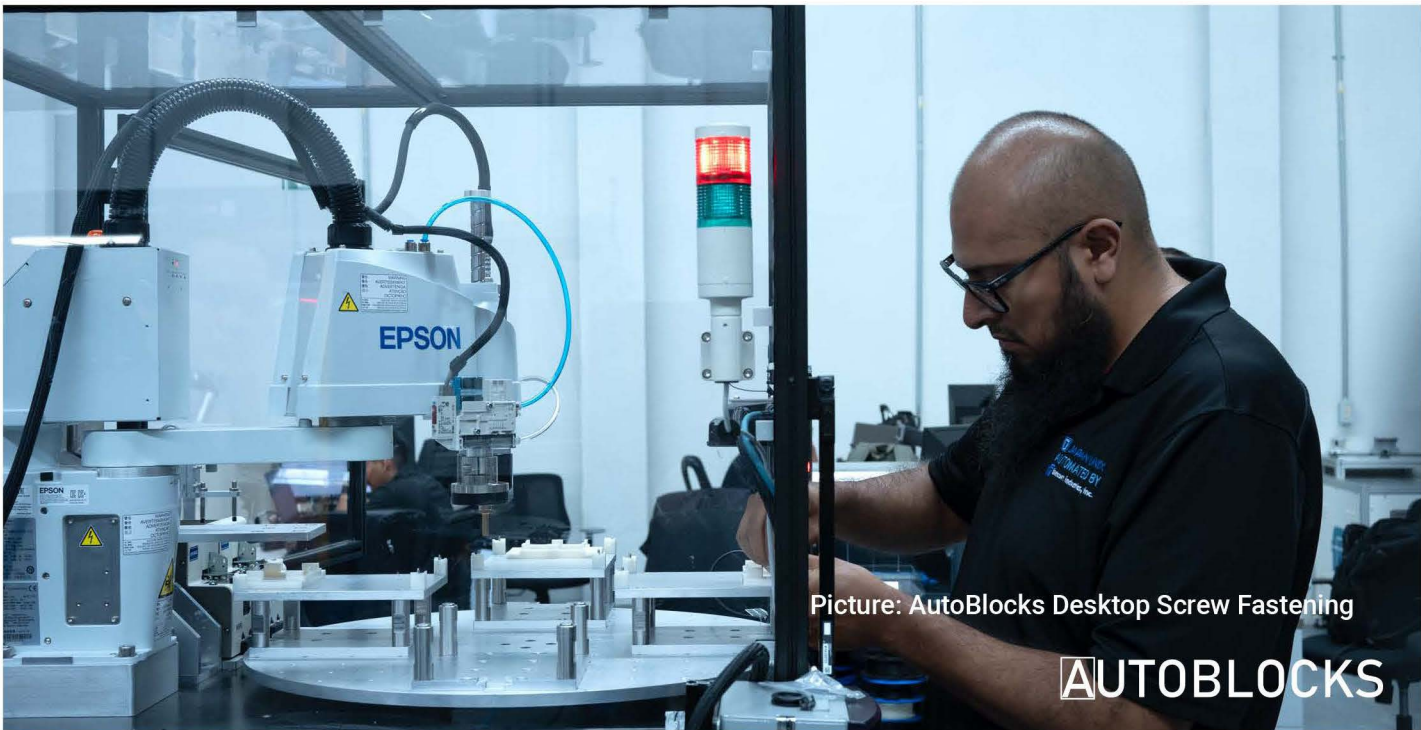


Picture:
AutoBlocks Control Block with Teach pendant, AutoBlocks Desktop Screw Fastening, AutoBlocks Soldering Cell, AutoBlocks Inline Soldering Cell

SCALABILITY & MODULAR FLEXIBILITY

GROW YOUR AUTOMATION WITHOUT LIMITS

- Add or remove modules as production needs to evolve.
- Compatible with stand-alone workstations and fully automated lines.
- Scales effortlessly from small R&D projects to mass production.



Picture: AutoBlocks Desktop Screw Fastening

AUTOBLOCKS

COMMON CONFIGURATIONS

- Single Station Cells– Stand-alone operations for precision tasks.
- Inline Production Systems– Expandable automation for mass production.
- Material Handling– Automated Stacking, sorting and transport.

What if scaling your automation was as Easy as adding LEGO blocks?



TECHNICAL SPECIFICATIONS

FEATURE	CONTROL BLOCK	CONTROL BLOCK MINI
Motion Control	6-axis native	6-axis with external drive/power
Safety	SIL3, PLe, Category 4	SIL3, PLe, Category 4
I/O	10 digital in, 10 out	10 digital in, 10 out
Power Input	120/240V, 15A	120/240V, 1A
Dimensions	19"x24"x7" [Rack Mount]	19"x10"x7" [Rack Mount]
Weight	25 lbs.	15 lbs.
Communication	Ethernet/IP, MODBUS, CANopen, I/O	Ethernet/IP, MODBUS, CANopen, I/O
Software	AutoCode & TurnCode	AutoCode & TurnCode

*Detailed specifications at [Fancort.com](#)

HOW AUTOBLOCKS SAVES YOU MONEY

COST-EFFICIENT, SCALABLE PRICING MODEL

Control Block List Price: Starting at \$9,950.00 USD

- High-performance automation controller with T/P.
- Add-ons: Motors, Actuators, vision systems, etc.



Picture: Control Block with Teach Pendant

Control Block Mini List Price: Starting at \$6,985.00 USD

- Cost-effective controller for smaller systems with T/P.
- Add-ons: Motors, Actuators, vision systems, etc.



Picture: Control Block Mini with Teach Pendan

AutoBlocks Saves money by reducing engineering costs and integration time.

THE ROI OF MODULAR AUTOMATION

MODULAR VS. CUSTOM CONTROLS: WHAT'S REALLY INVOLVED?

Traditional Custom Control System Integration

- Start with a blank sheet: every system requires a custom electrical panel
- You need to select, wire, and program PLCs, motion controllers, safety relays, and HMIs
- Software must be developed from scratch (ladder logic, structured text, G-code, etc.)
- Integration between robots, safety, I/O, and vision systems is often painful and requires multiple engineers
- Any change in project scope means redesigning everything



Picture: Three 'Control Block Mini' Controllers

Autoblocks Control Integration

- The control block already includes logic, motion, and safety in one
- Devices like robots, sensors, actuators, and light curtains are plug-and-play
- No electrical panel required
- No-code interface with AutoCode or TurnCode eliminates software engineering
- The system is designed to scale, so you can reuse the same block for future projects



Pictures: AutoBlocks Desktop Soldering

THE ROI OF MODULAR AUTOMATION

HOW FAST DOES IT PAY FOR ITSELF?

Modular automation isn't just a time-saver—it's a business accelerator that eliminates delays, lowers engineering costs, and unlocks scalable growth.

WHERE DO YOU SEE THE BIGGEST RETURN?

- **Engineering Costs** → Reduces time spent on mechanical design, software coding, and panel building.
- **Integration Costs** → Eliminates the need to program or debug third-party devices—everything is plug and play.
- **Deployment Time** → Cuts lead time from 6–12 months to weeks.
- **Scalability** → You don't rebuild. You add blocks—expanding without redesigning from scratch.



Picture: Teach Pendant Featuring the Induction Soldering Program

The longer you stick with custom automation, the more time, money, and opportunity you lose.

THE ROI OF MODULAR AUTOMATION

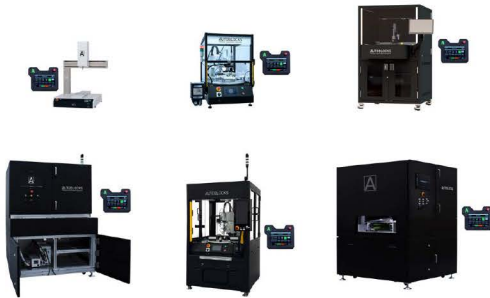
CONTROL SYSTEM ROI COMPARISON: AUTOBLOCKS VS CUSTOM CONTROLS

FEATURE / METRIC	AUTOBLOCKS CONTROL BLOCK	TRADITIONAL CUSTOM CONTROLS
Pre-Wired Industrial Controller	✓	✗ Requires custom panel
Integrated Motion, Safety & Logic	✓	✗ Separate PLC, safety, motion
No-Code or Low-Code Programming	✓	✗ Requires manual coding
Pre-Installed Software (AutoCode/TurnCode)	✓	✗ Custom software development
Plug-and-Play Device Integration	✓	✗ Manual mapping + debug
HMI & Safety Interfaces Pre-Built	✓	✗ Custom touchscreen & E-Stop
System Scalability / Reusability	✓	✗ Usually one-off systems
Engineering Time Required	2–8 hours	150–250 hours
Integration Labor Cost	\$0–\$2K	\$20K–\$25K
Deployment Time	4–6 weeks	3–6 months
Total Investment (Control Only)	\$15K–\$20K	\$75K–\$100K
Payback Period (Control Portion)	3 – 4 months	18 – 30 months

CHOOSING THE RIGHT AUTOBLOCKS PLATFORM FOR YOUR NEEDS

CHOOSE THE RIGHT SETUP FOR YOUR NEEDS

- Desktop
- Indexing Systems
- Stand-Alone
- Twin Table
- Inline Systems
- Material Handling Applications



THE INDUSTRY IS EVOLVING ARE YOU KEEPING UP OR FALLING BEHIND?

FASTER, SMARTER, COST-EFFECTIVE AUTOMATION

- Plug-&-Play Simplicity
- No-code Integration
- Industry-leading Safety and Flexibility
- Scalable for any production need



Picture: AutoBlocks Screw Fastening Cells with Teach Pendant

*AutoBlocks Is the future of Automation - Are you ready to upgrade?
Let's discuss your automation needs!*



AEROSPACE. ELECTRONICS. MILITARY. MEDICAL. AUTOMOTIVE. INDUSTRIAL

AUTOBLOCKS Modular Automation Solutions

Welcome to AutoBlocks™, the driving force behind revolutionary advancements in automated assembly. At AutoBlocks™, we believe in the power of innovation to transform the manufacturing industry. Our core concept centers around providing a standardized and modular approach to custom machine building, reducing costs, increasing efficiency, and accelerating development timelines.

333 Route 46 W - Building B, Fairfield, NJ 07004
info@autoblocks.co 917-557-6858

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