

# Machine Control

## OEMs Solve Time-to-Market Slowdowns with Agile, Modern Machine Control

### Challenges

#### Relying on an outdated PLC is a bad place to be.

Today's market is a tough time to be locked in with an outdated programmable logic controller (PLC) and components. Unpredictable supply chains can leave OEMs stuck with unavailable parts or tied to old technology that makes their systems less competitive.

**BUILDERS CAN FALL BEHIND WHEN USING OUTDATED CONTROL TECHNOLOGIES.**



#### Programmer shortage is stressing your production.

Programming talent is difficult to find and attract, while the new generation of programmers have technical skills that may not apply to proprietary industrial environments. For OEMs, making optimum use of programming time is money.

**SHORTFALL OF 4 MILLION SOFTWARE DEVELOPERS BY 2025.<sup>1</sup>**



#### Cyberthreats increase every day.

As industrial plants face ransomware and loss of intellectual property and hackers threaten consumers with excess chemicals in water facilities, dealing with data security issues has become a key challenge for OEMs.

**CYBER RISKS IN 75% OF EXISTING OPERATIONAL AND SAFETY DEVICES.<sup>2</sup>**



1. <https://www.forbes.com/sites/forbestechcouncil/2022/09/12/navigating-the-developer-shortage-crisis-a-time-to-define-the-developer-of-the-future/?sh=7407a3692a5c>

2. <https://www.washingtonpost.com/politics/2022/12/14/severe-vulnerabilities-found-most-industrial-controllers/>

# OUR SOLUTION - A Truly Agile, Open Machine Control Technology

When yesterday's control technologies hold back OEM progress and competitive position, it's time for modern, agile PACSystems™ control solutions. With PACSystems CPE200 Series compact PLCs and RX3i edge controllers, machine builders master supply chain constraints with open communications; expand the labor pool with open programming; protect customers with multilayer security built in; and increase productivity with high-performance multicore processors and full gigabit communications – without exceeding schedule or budget.

## Open Communication – Connect to all equipment without third-party modules or licensing

PACSystems control solutions with open standards communications – including OPC UA Secure, PROFINET, Modbus, Profibus and over 20 more – speed integration of components and reduce bugs in product interfaces.



## Open Programming – Broaden hiring options and speed development

Only PACSystems controllers offer easy, fast programming in IEC 61131 languages (LD, ST, and FBD) and native C programming, one of the most widely used languages in the world. This versatility meets the needs of the new generation of programmers.



## Security-by-Design – Robust layers of security meet emerging threats and application needs

With PACSystems solutions, cybersecurity is built in at the hardware, firmware, and software levels, with pre-installed, pre-licensed OPC UA Secure managing authenticated, encrypted communications.



### PACSystems RSTi-EP CPE200 Series Compact PLC



### PACSystems RX3i CPL410 Edge Controller



### QuickPanel+ Operator Interface



### PACMotion Servo Solutions



### PACSafe Configurable Safety Controller



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