



Compact Machine Solutions for Small and Mid Range Applications. (4/20/10)

Jim Taylor, Solution Architect
Rockwell Automation

(Confidential – For Internal Use Only)

What We Will Cover Today (Agenda)

1. Machine Builder Performance

2. Compact Machine Solutions

3. Optimized Architectures

4. Newly released related products

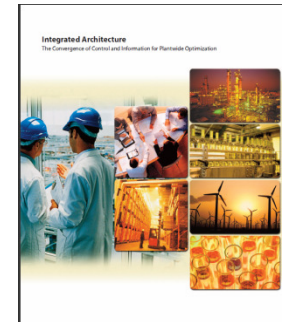
5. Questions ?

Plant-Wide Optimization

Time to Market
Risk Mitigation
Productivity
Asset Optimization
Lifecycle Reliability

Machine Builder Performance

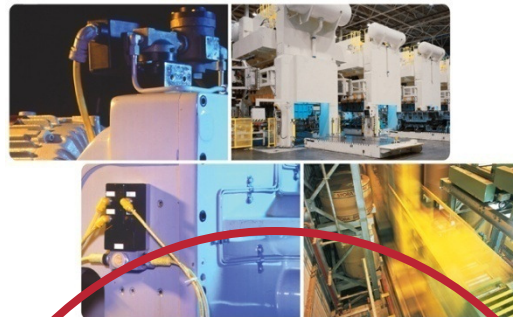
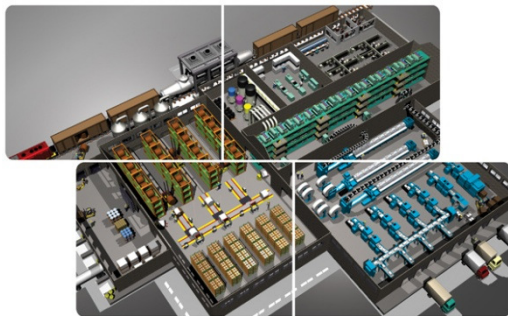
Global Standards
Risk Mitigation
Productivity
Competitive Advantage
Differentiated Value
Reliability



Integrated Architecture Key Commercial Programs FY10				
Key IA Product News FY10 (Not all inclusive)				
Product Name	Picture	Description	Customer Value	Availability
RSLogix v18		Focus on re-use, IP protection, productivity and security	<ul style="list-style-type: none"> Protect Customer investments Reducing engineering and maintenance time Enhance ability to use in security-sensitive applications like Safety, OEM, F&B, Pharma 	March 2010
ControlLogix L70, L75		Next Generation Logix controller	<ul style="list-style-type: none"> Enhanced machine performance Reduces complexity for large machines currently using multi-controller architectures Improve Communications performance 	May 2010
RSLogix v18.5 Redundancy		EtherNet I/O, Ring, L7x, Parallel Input online, Redundant I/O	<ul style="list-style-type: none"> Support Ethernet-Only systems Faster Applications, Online Bulk edits New Redundant I/O Platform 	September 2010
Compact GuardLogix		2 Compact GuardLogix controllers (1768-L455, L455)	<ul style="list-style-type: none"> Integrated Safety in the CompactLogix L4x Expand GuardLogix portfolio in CMS space Distributed Safety I/O on EtherNet/IP 	March 2010
Security Enhancements		High-Integrity Add-On-Instructions, ControlFlash V8.0 - Digital Signature Verification (L7x)	<ul style="list-style-type: none"> Address the needs of regulated industries for auditing purposes in Life Sciences, Food & Beverage, and others Maintain consistency and revision control in libraries 	V18

Machine Builder Performance

Continuous improvement is critical for success today. Manufacturers and Machine Builders today must leverage their automation investment to create an architecture for continuous optimization, competitive differentiation and sustainable production.



Plant-Wide Optimization

Time to Market
Risk Mitigation
Productivity & Supply Chain
Asset Optimization
Lifecycle Cost
Reliability

Machine Builder Performance

Global Standards
Risk Mitigation
Productivity
Competitive Advantage
Differentiated Value
Reliability

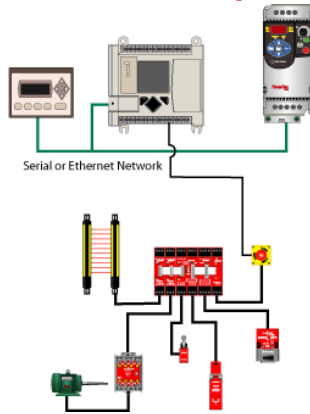
Sustainable Production

Demand Management
Process Optimization
Regulatory Compliance
Resource Utilization
Workers and Environment
Product Integrity

Scalable Machine Control Solutions

Components & Intelligent Motor Control

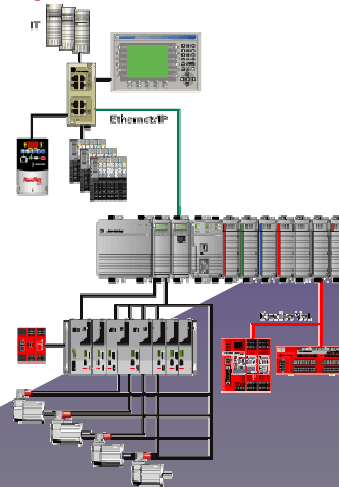
Connected Components



- Simple Connectivity
- Mechanical linked machine
- Stand alone machine
- Low cost
- Just enough control

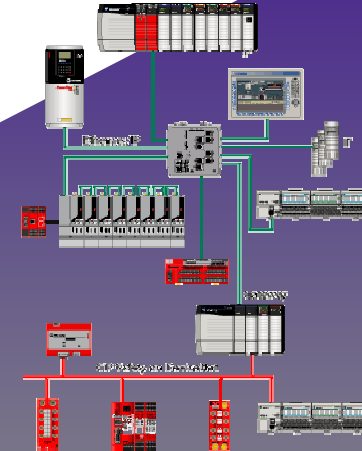
Integrated Architecture

Compact Machine Solutions



- Multi axis motion
- Increased controller capabilities
- Mix of mechanical and electrical controls
- Low engineering costs

Advanced Machine Solutions



- Coordinated Multi axis motion
- Robotic Feeders
- Electronic Line Shifting
- Advanced connectivity
- Advanced information capabilities

Integration Continuum

Low

High

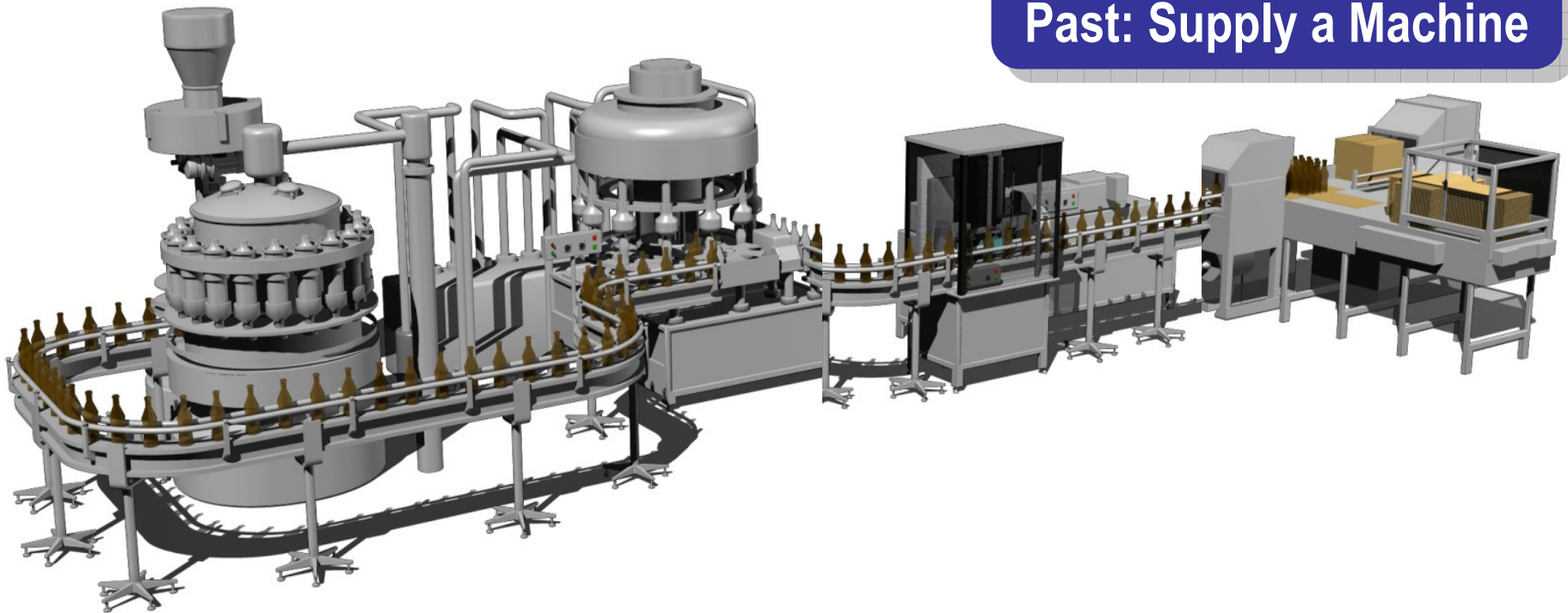
Broadest offering available for Machine Builder (OEM) needs

The Changing Scope of Supply

Future: Provide a Complete Line

Present: Integrate to Other Machines

Past: Supply a Machine



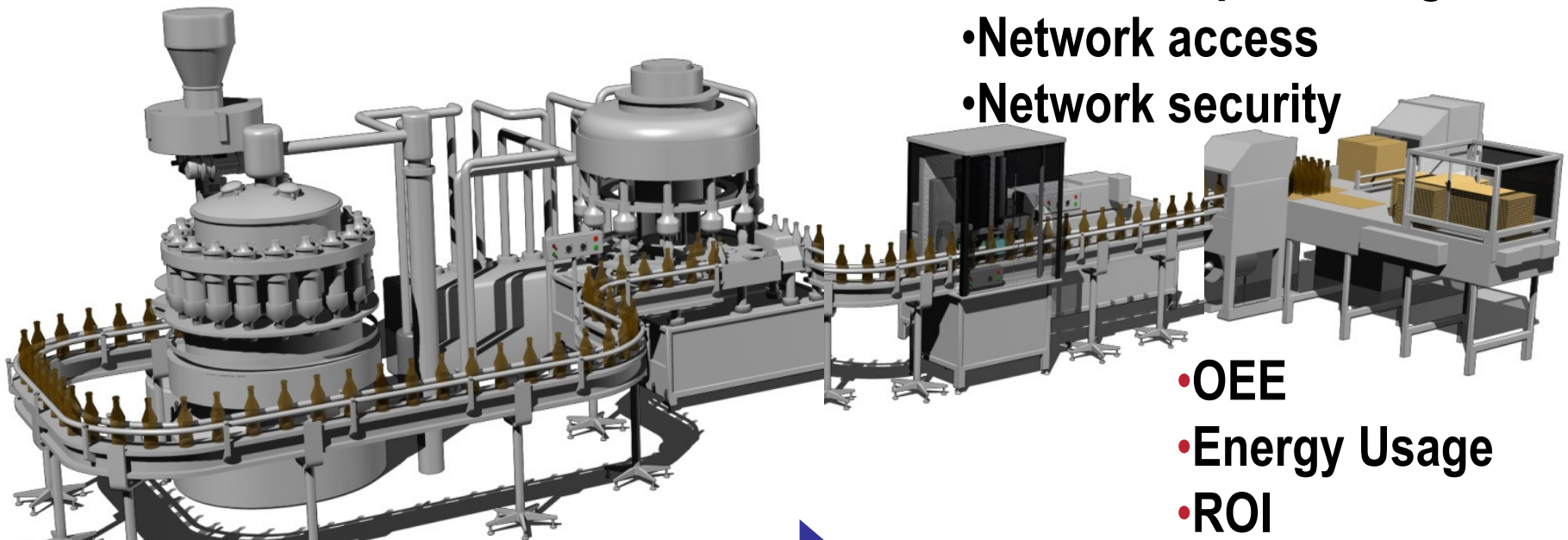
The Changing Scope of Supply

Machine Focused



System Focused

- IT/Control Integration
- Remote system support
- Machine & plant integration
- Network access
- Network security



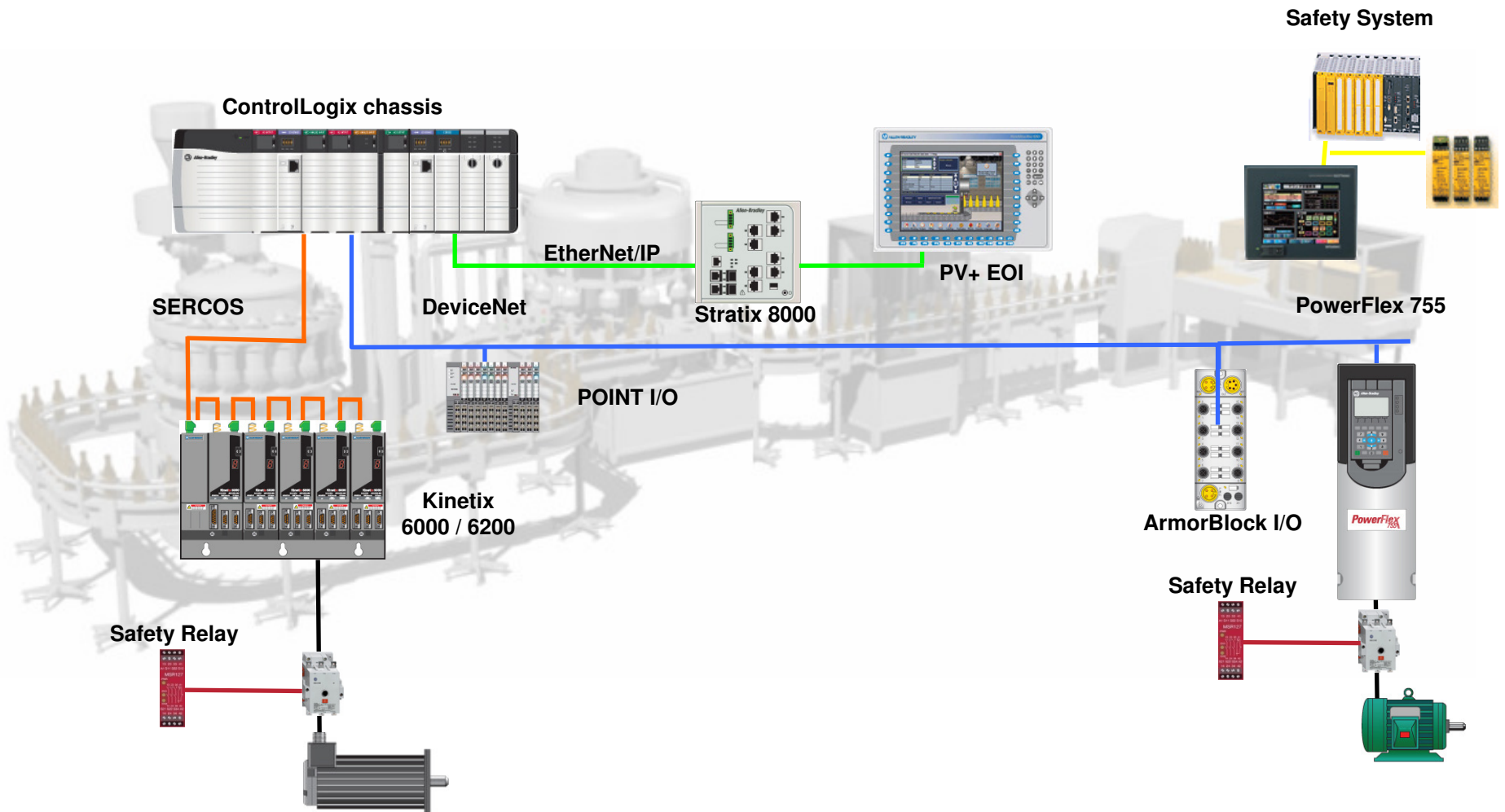
- OEE
- Energy Usage
- ROI

Technically oriented

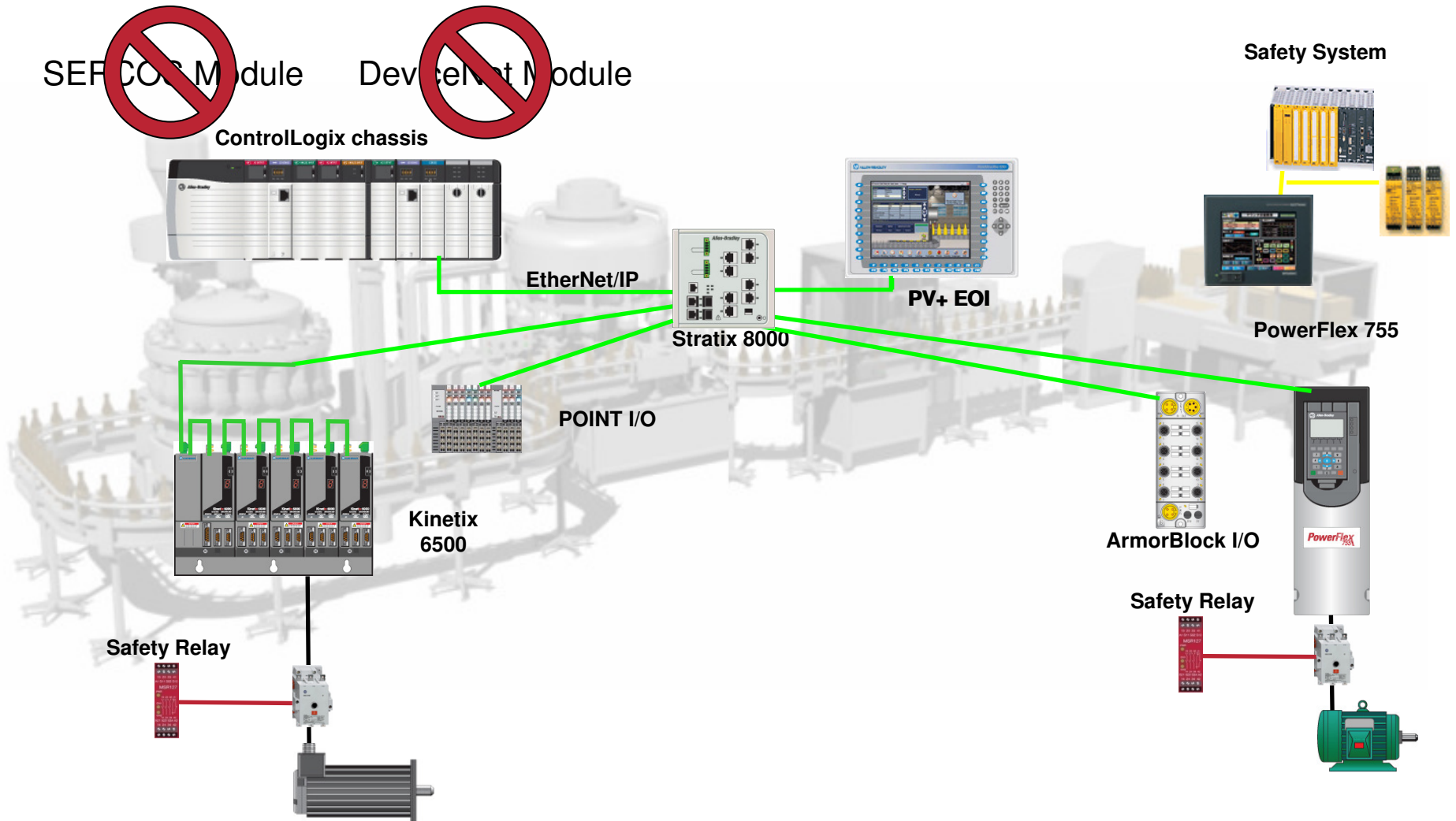


Value Oriented

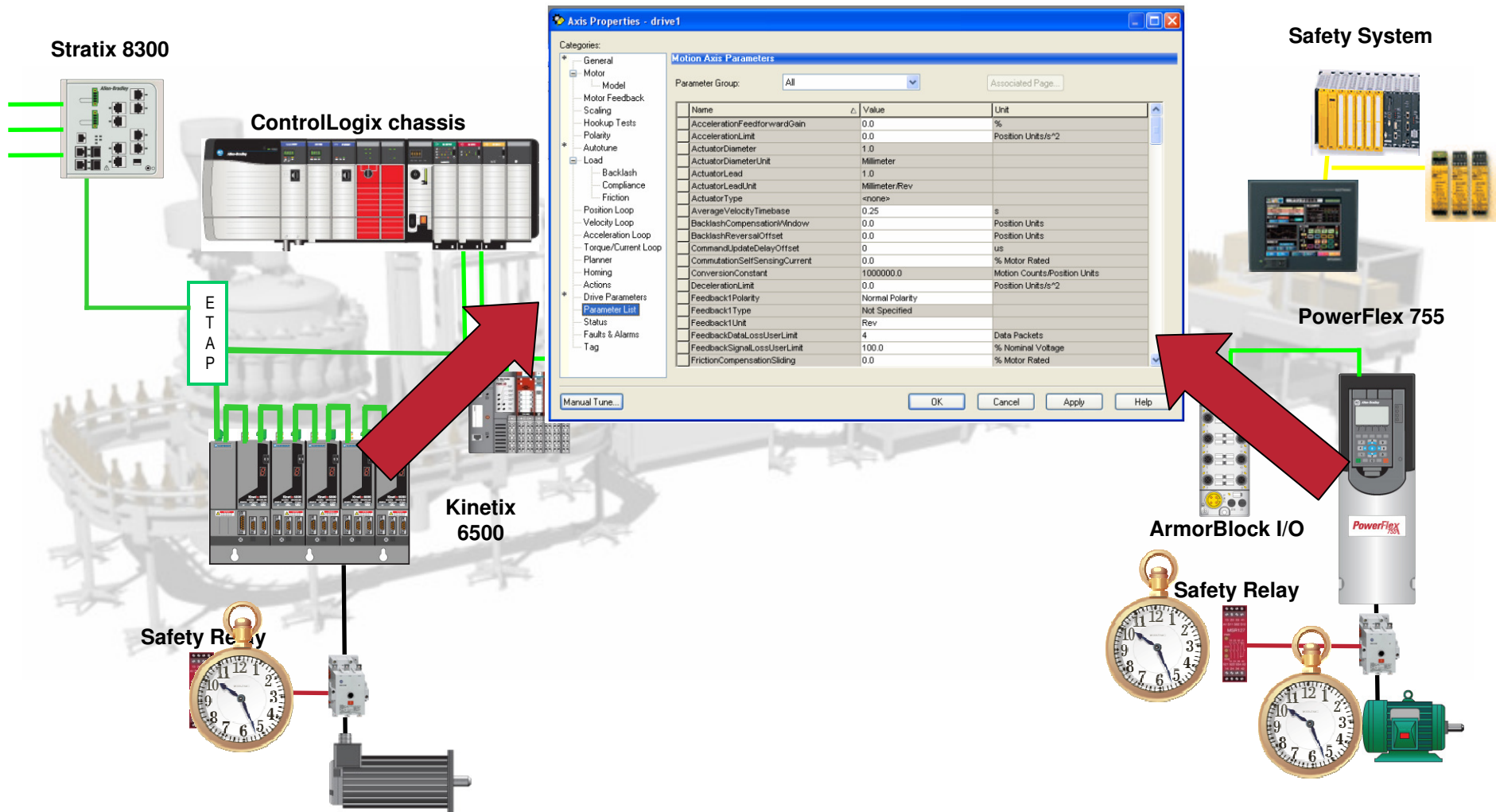
Machine Builder Performance



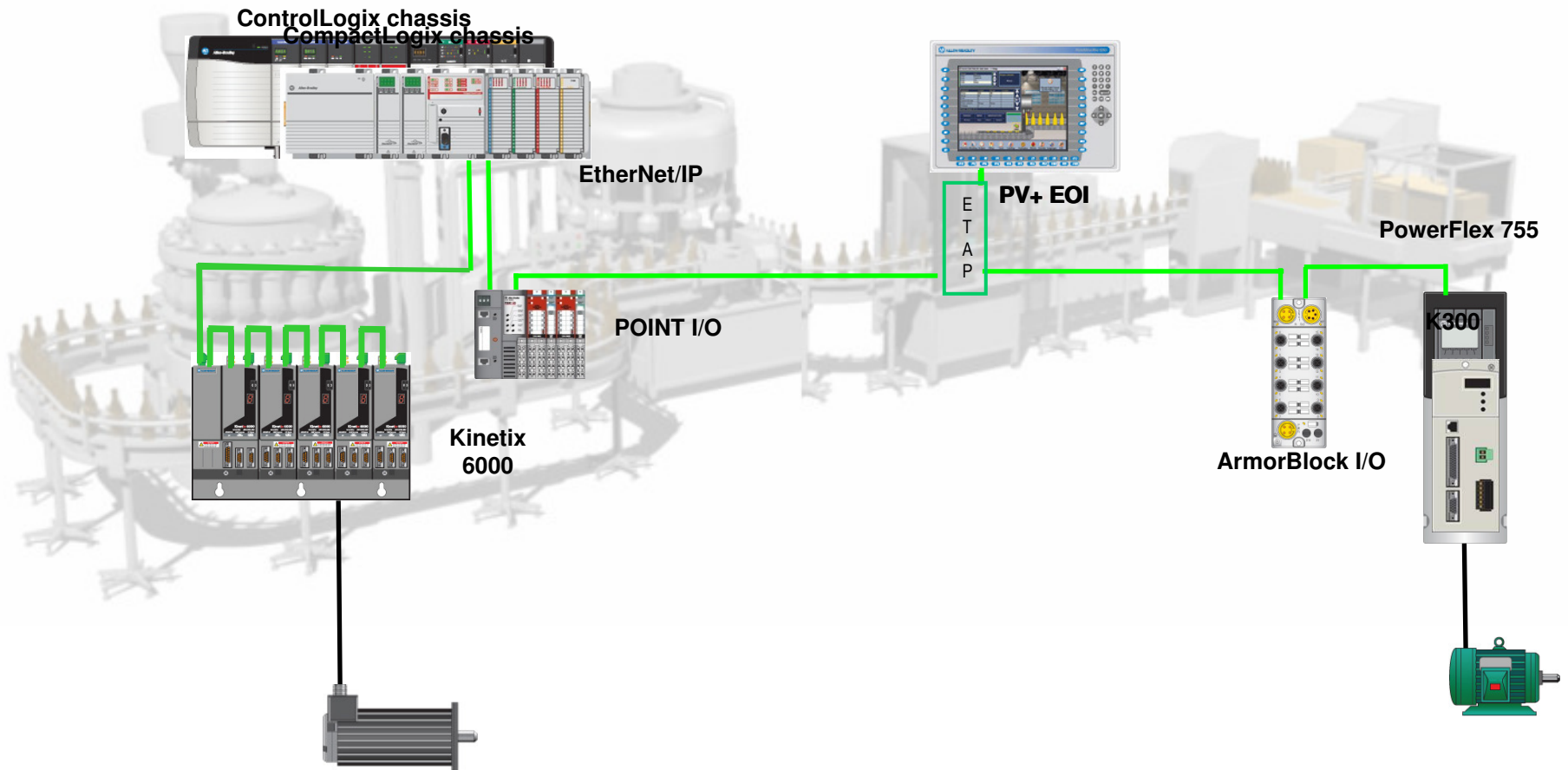
Machine Builder Performance



Machine Builder Performance



Scalability



Agenda

1. Machine Builder Performance

2. Compact Machine Solutions

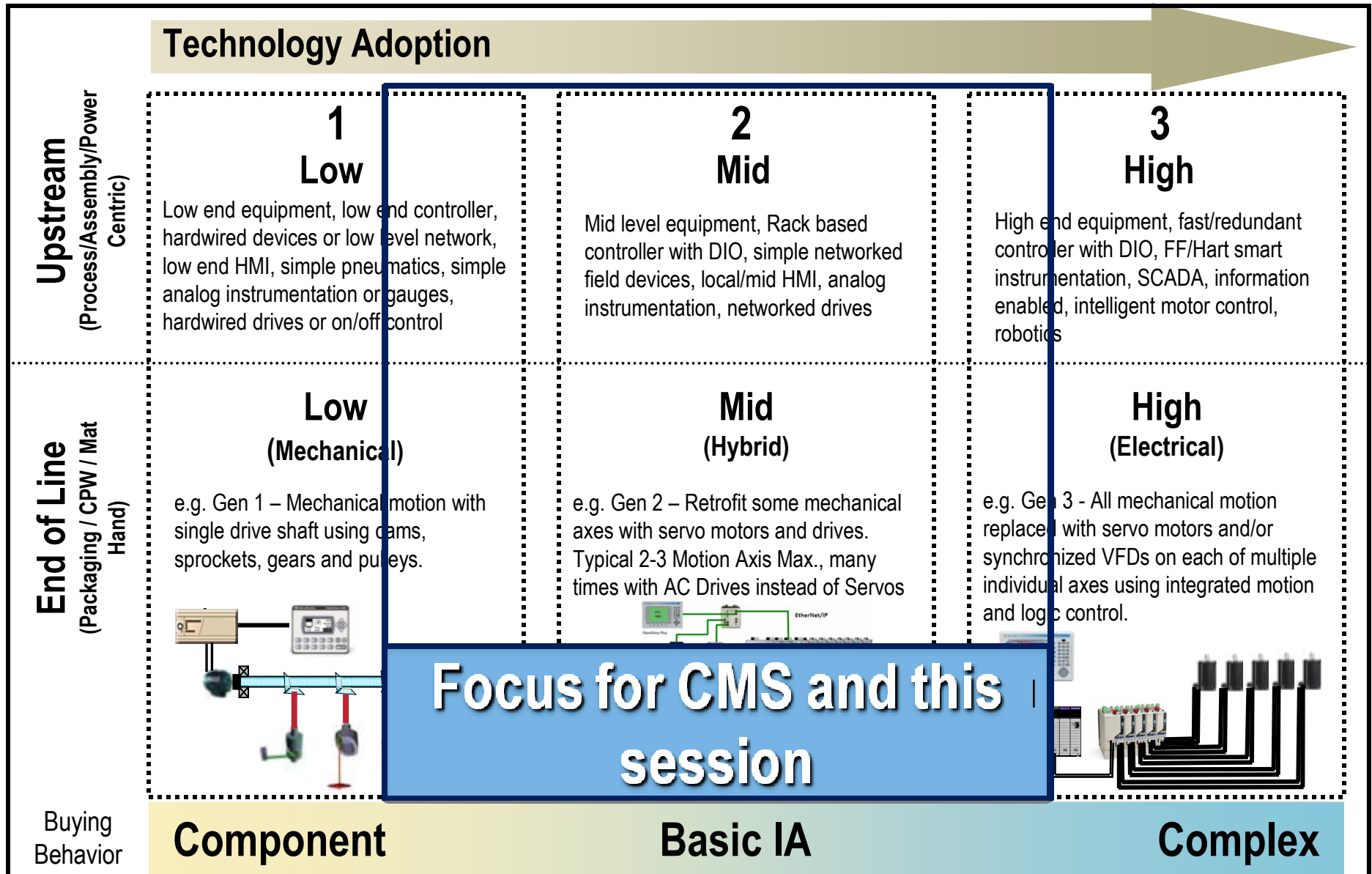
3. Optimized Architectures

4. Newly released related products

5. Questions ?

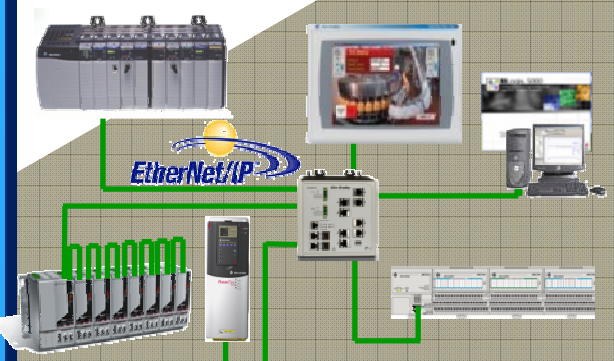
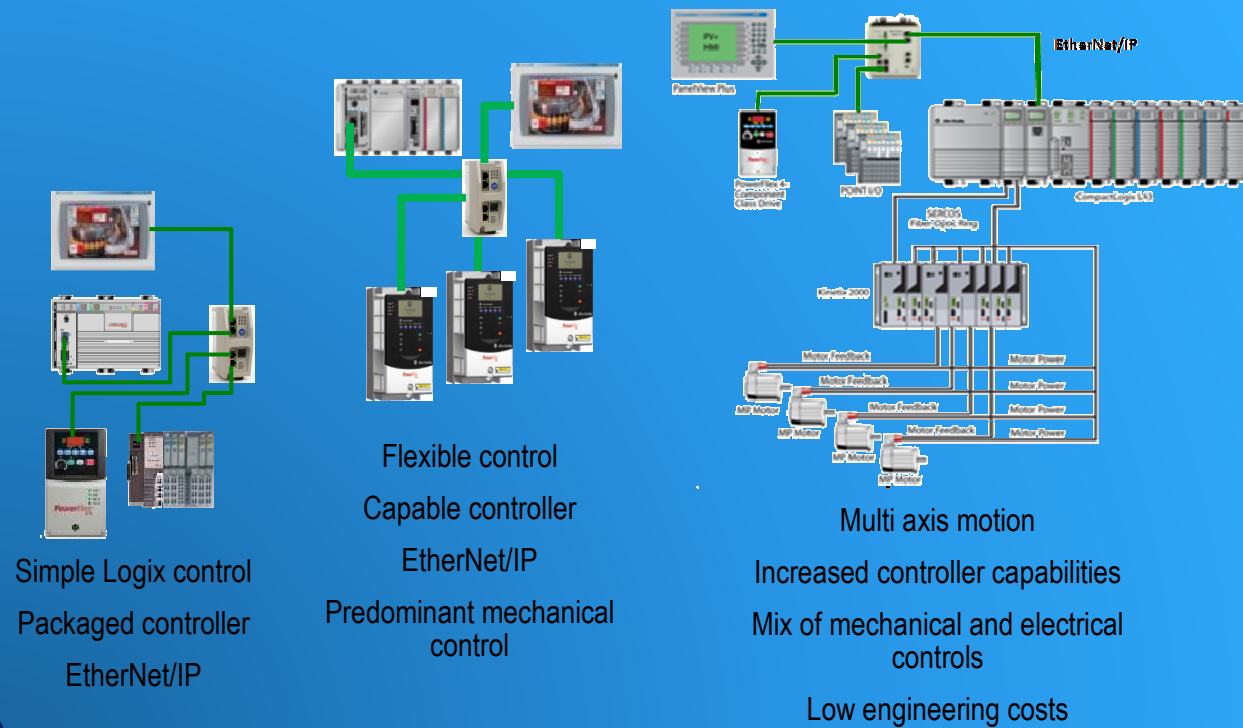
OEM Market Characteristics

Machine/Equipment Continuum



Integrated Architecture Solutions for Machine Control

Compact Machine Solutions space

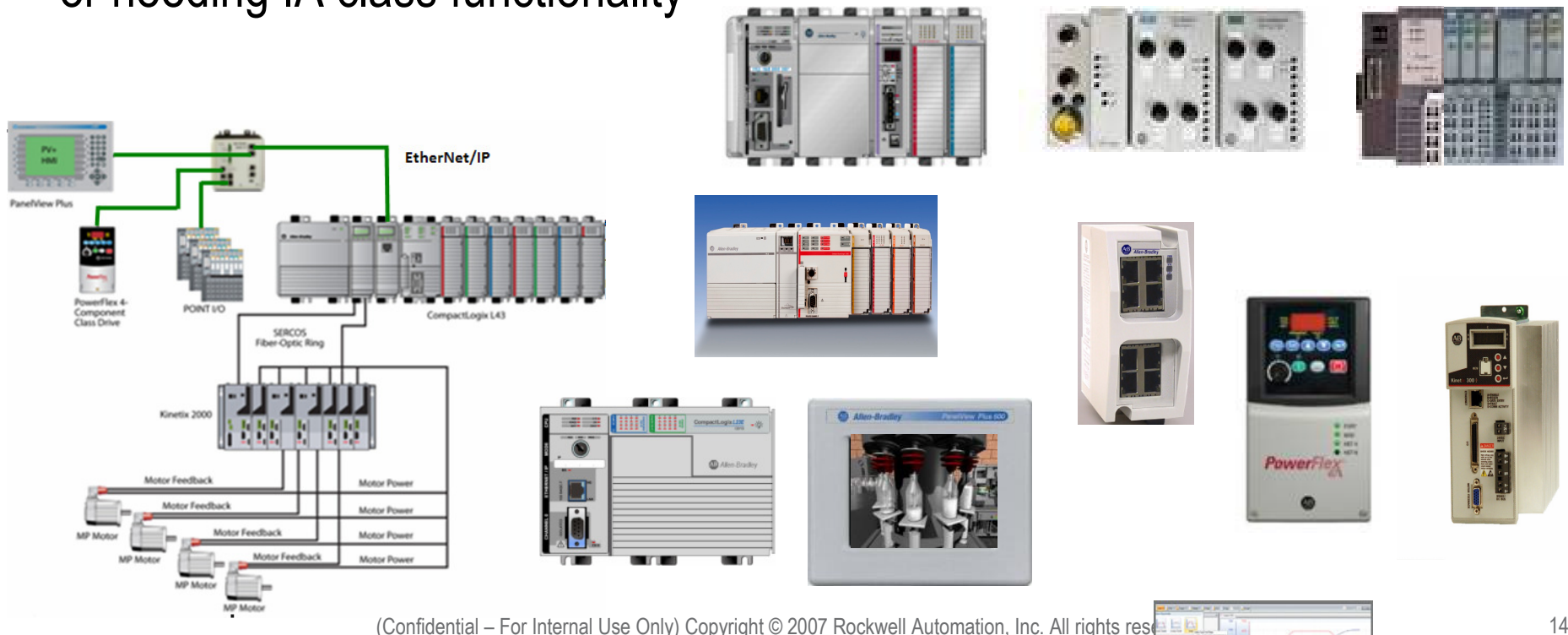


- Multi axis motion
- Robotic Feeders
- Electronic Line Shafting
- Advanced connectivity
- Advanced information capabilities



Compact Machine Solutions

- Compact Machine Solutions is an initiative focused on providing technical answers to OEM problems
- Compact Machine Solutions is a way to focus on understanding those problems and provide the right set of tools, products and capabilities to address the needs of OEMs evolving from their first generation machines or needing IA class functionality



An Integrated Architecture Class Machine leverages:

- Integrated Motion
 - Highly integrated speed & position solutions
- Advanced programming techniques
 - Modular Programming
 - Libraries
 - Specific Instructions & Faceplates
- ISA S88 / PackML
 - State modeling, Modular control
- Device Premier Integration (i.e. PowerFlex Drives)
 - Reduced development, commissioning and maintenance costs
- Information access over EtherNet/IP
 - Immediate integration with end-user's information system
 - Web, email capabilities, remote diagnostics



What is important for those OEMs ?

COMPETITIVENESS

REDUCE COST

- Lower Total Cost to Design, Develop, and DeliverSM (TCD)
 - Reduce costs involved in machine production
 - Use standard components (SCALABILITY)
 - Reusable Engineering content (MODULAR PROGRAMMING)
 - Reduce costs after delivery
 - Remote access to devices below the controller for maximum diagnostics capabilities
- **Faster Time to Market**
 - Shorter design, test and commissioning cycles
 - Provide custom machinery within standard build cycle (FLEXIBILITY)

BETTER MACHINES

- **Improved Machine Innovation, Throughput and Performance**
 - Increasing competitive machine requirements
 - Differentiate on reliability and OEE effectiveness
 - Information enabled machines
 - Flexible machines
- **Intellectual property protection**



Agenda

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2. Compact Machine Solutions

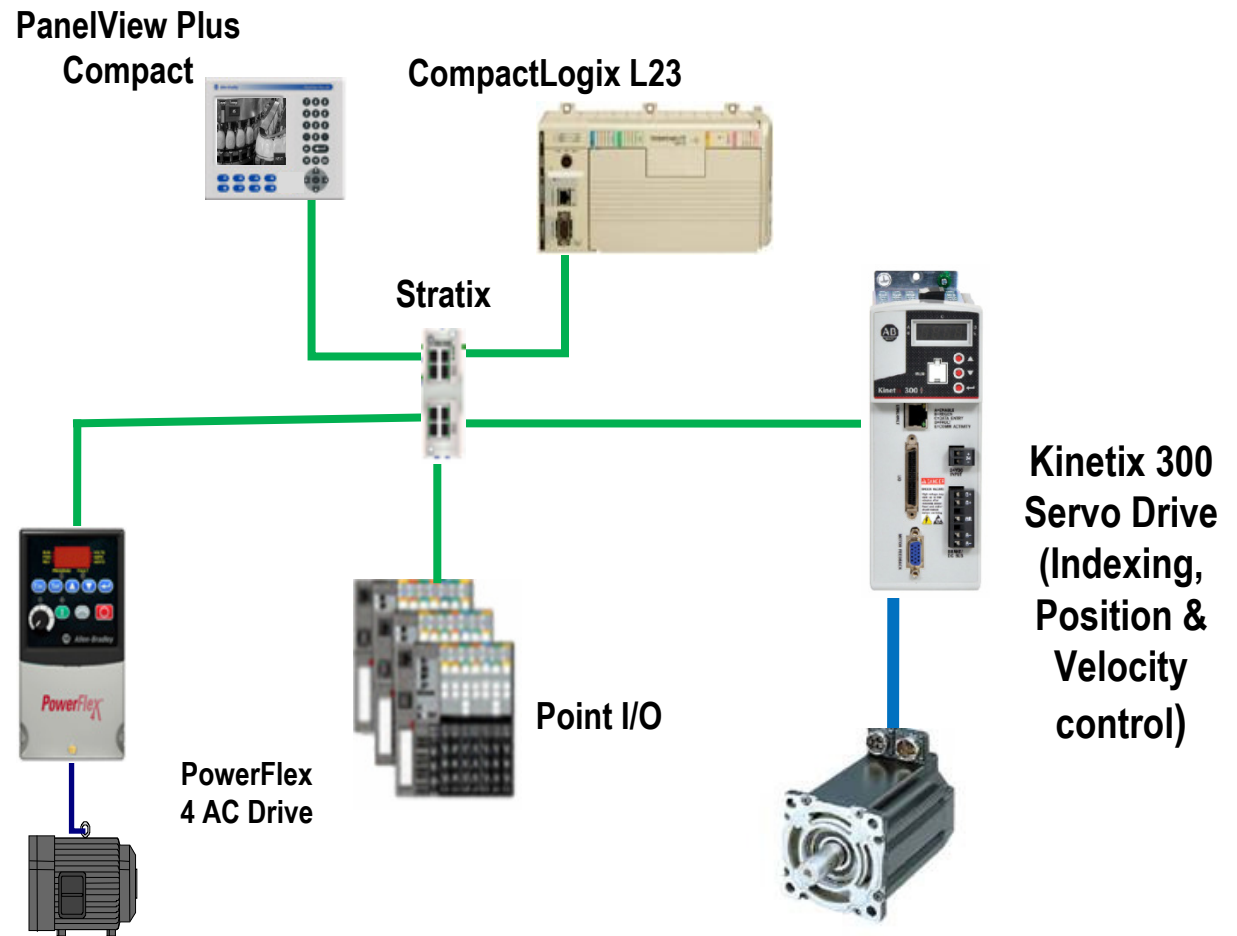
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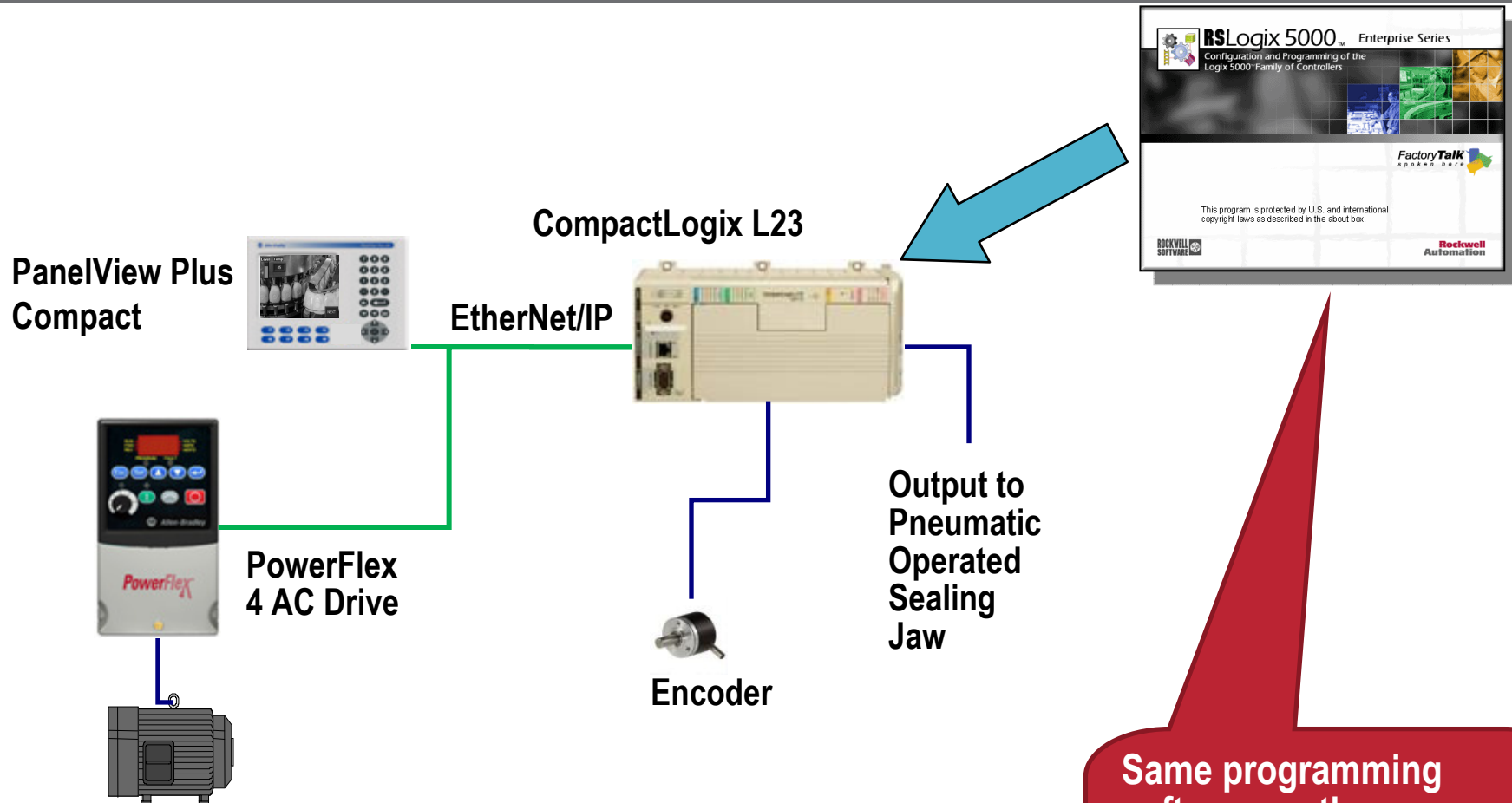
5. Questions ?

Leveraging EtherNet/IP

- **Leverage EtherNet/IP for:**
- Seamless integration of products
- Easily re-use and migrate projects
- Link plant floor to enterprise systems
 - Integrate control and information infrastructures
- Simple diagnostics and monitoring
- Ease of configuration
- Simplify maintenance
- Leverage tools
 - HMI Faceplates
 - Logix Add On Instructions

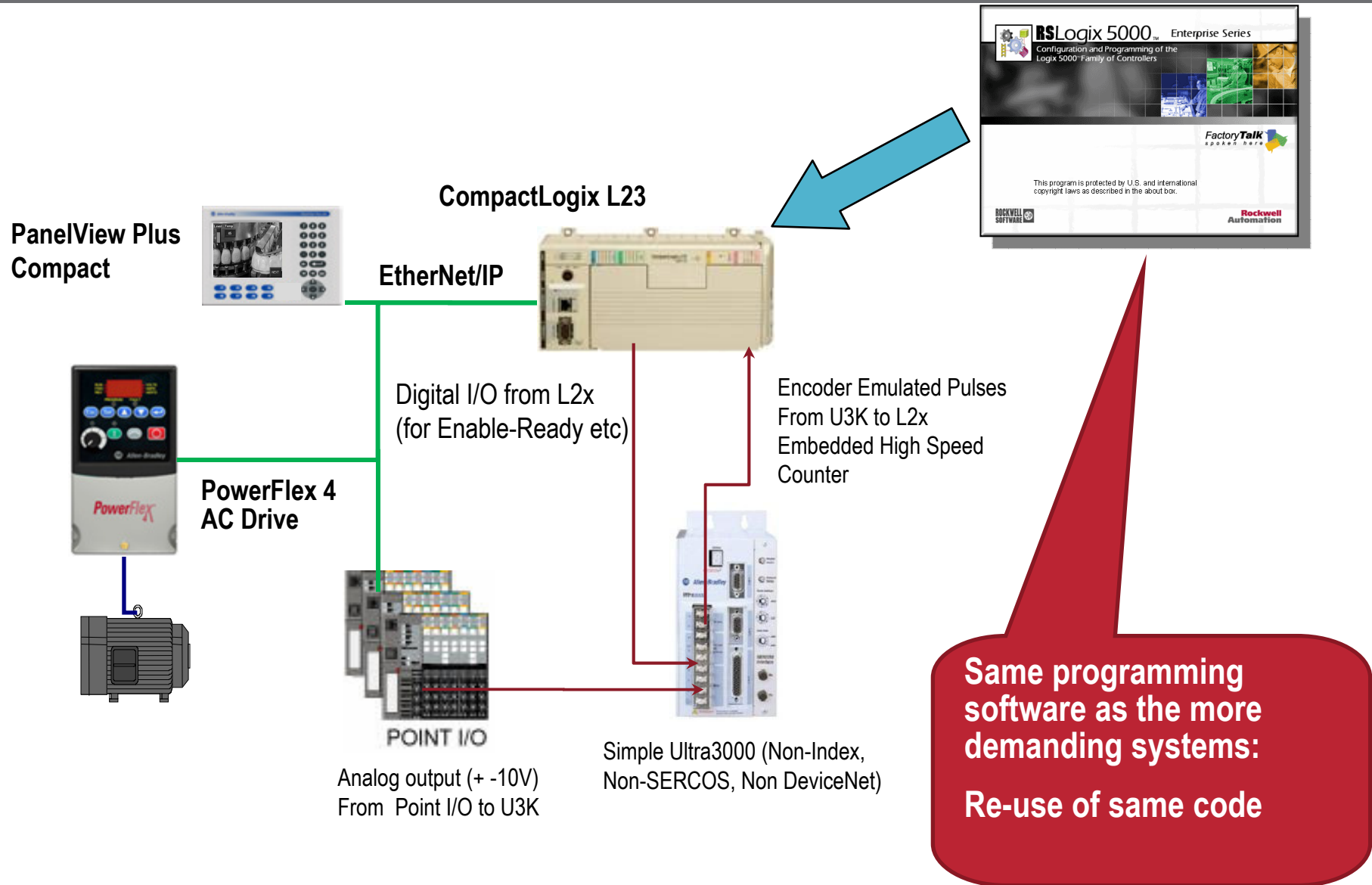


Smaller, Intermittent Machine - Now w/Drive



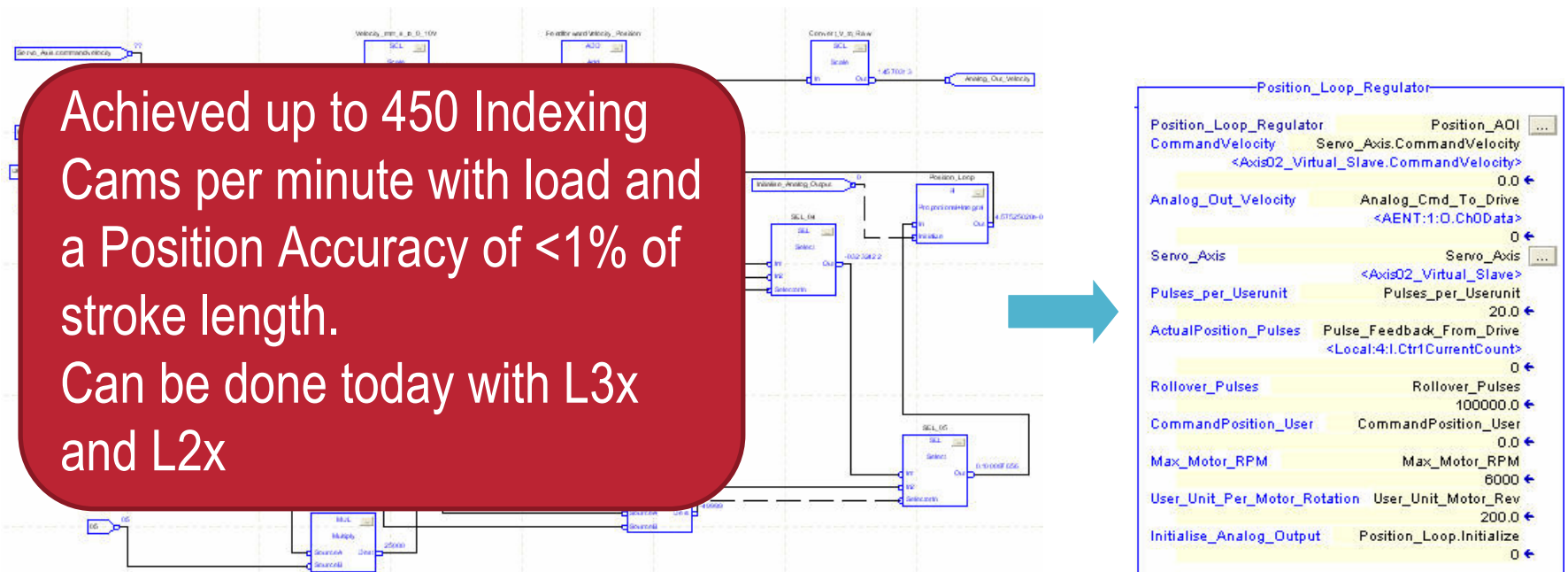
Same programming software as the more demanding systems:
Re-use of same code

Smaller, Intermittent Machine - Now w/Servo

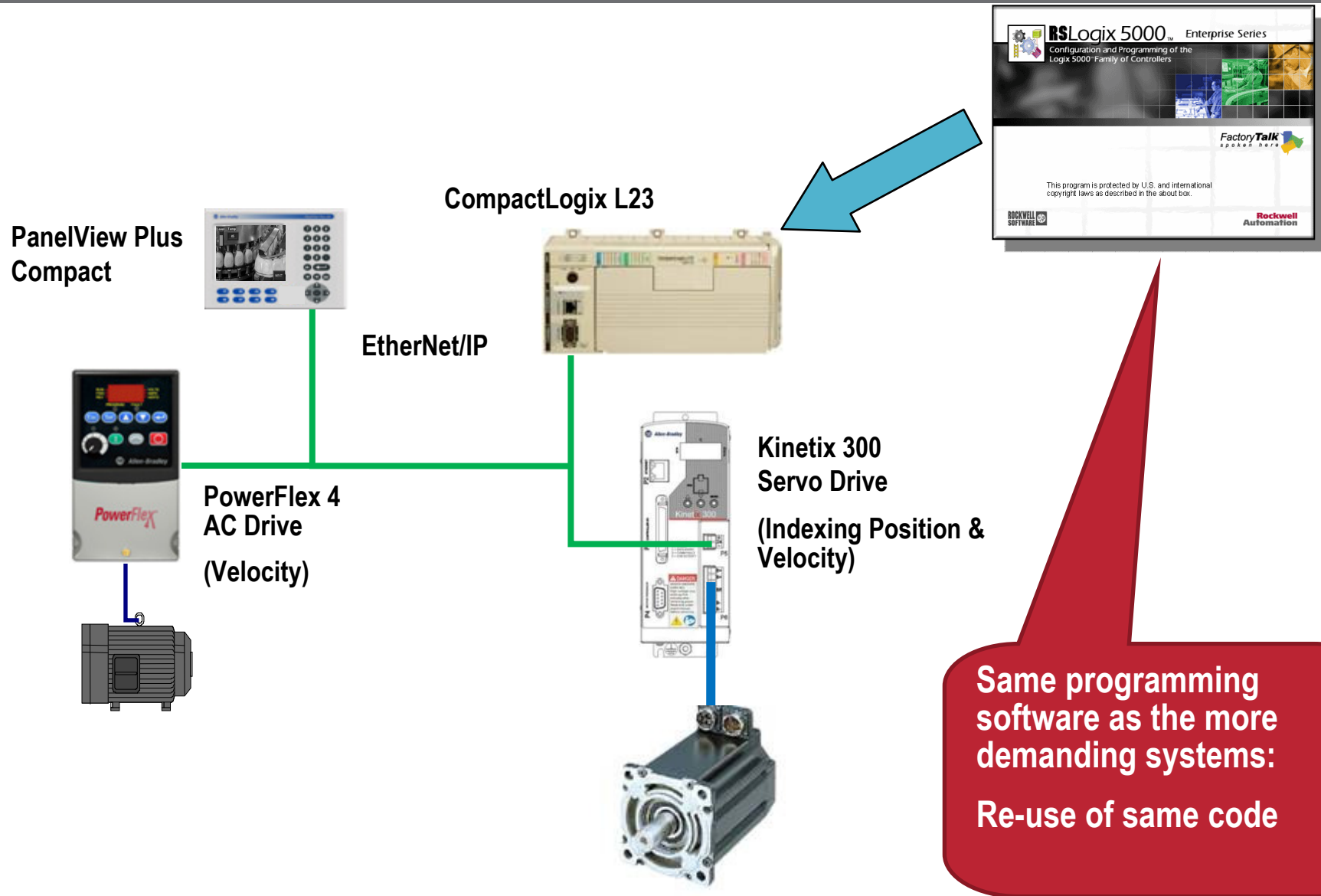


We prototyped the configuration in our Application Lab in Singapore

- We developed an AOI to close the Position Loop in the L2X
 - It uses a Virtual Axis and a Velocity Feedforward with a secondary Position Loop
 - It runs in a Motion Planner Synchronous Task
 - It uses the built-in HSC and currently Point IO Analog Out
 - It uses IOT to Analog Out and CST to shift CommandPosition into phase



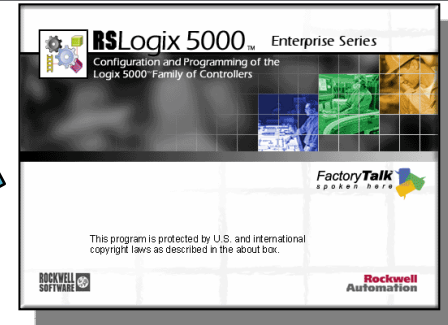
Smaller, Intermittent Machine - Now w/Servo



The Market for small apps

- We have won significant traction in Packaging CMS space by selling Integrated Motion on CompactLogix
 - Applications Packaging
 - VFFS > 100 packs / minute
 - HFFS > 150 packs / minute
 - Slevers > 400 bottles / minute
 - Intermittent Shrinkwrappers / Wraparound
 - Simple Case Packers / Case Erectors > 30 packs /minute
- Machine builders often build market reputations with their “flagship” machines
 - OEM X, for example, developed the 800/min sleever and in the first year after expanded their facility on increased sales of the 450 and 250 systems
- Packaging Machine builders tend to build an “International Version” at around \$50K - \$120K+ and a “Commodity Version” at between \$25 and \$40K selling price
 - The proposed solutions fit the \$25K - \$40K machine selling price range

Medium size continuous machine



PanelView

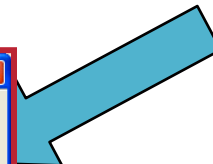
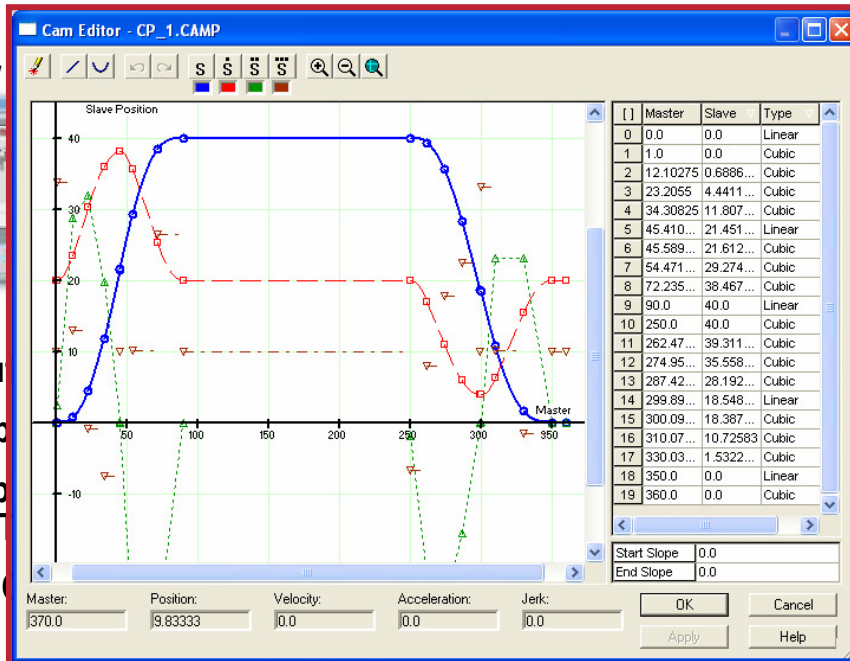


24 VDC Input

24 VDC Output

Thermocouple
sealing Bar

Isolated DC



Product Feed
I/O

alog



Film Pull Belt 1

Film Pull Belt 2

Registration Sensor

Cross Jaw 1

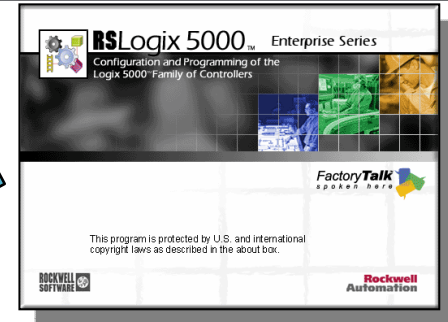
Cross Jaw 2

Graphical CAM Profile editor for Cross Jaw Motion

Values can be automatically calculated for different products

Up to 8 Axis & Full Motion support, except Kinematics

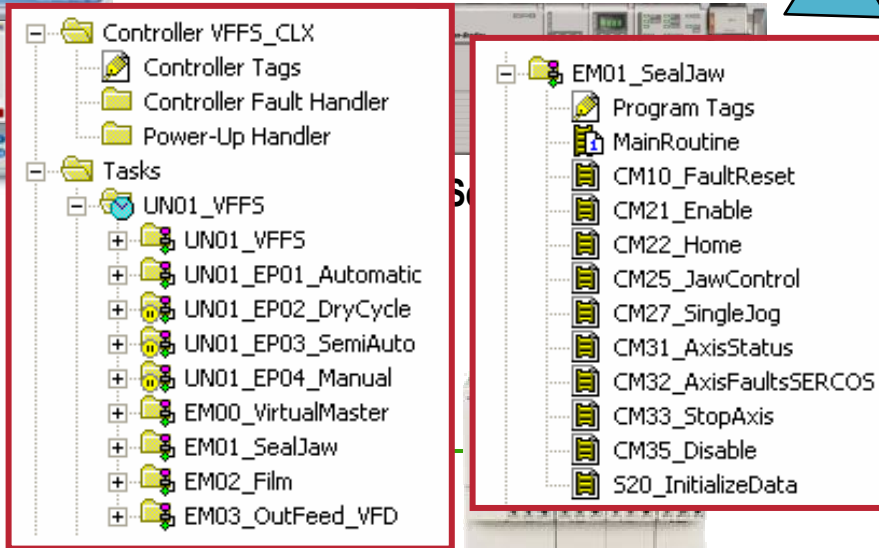
All Servo Intermittent or Continuous Machine



PanelView Plus



CompactLogix L4x



Same programming language as rack-based systems:

Re-use of programming routines

Up to 8 Servo drives

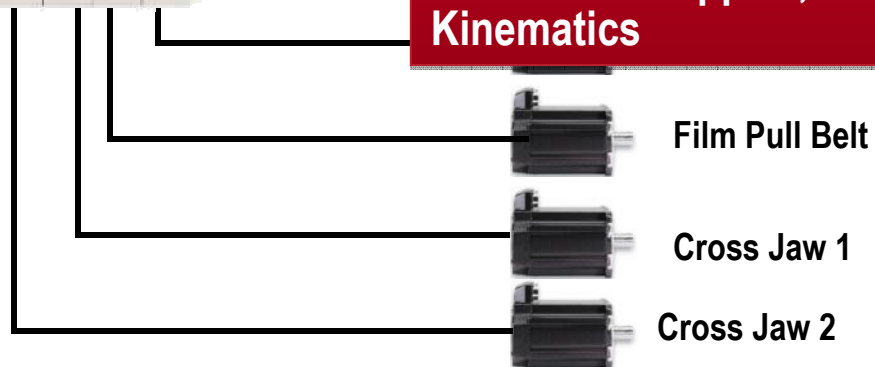
Full Motion support, except Kinematics

24 VDC Inputs

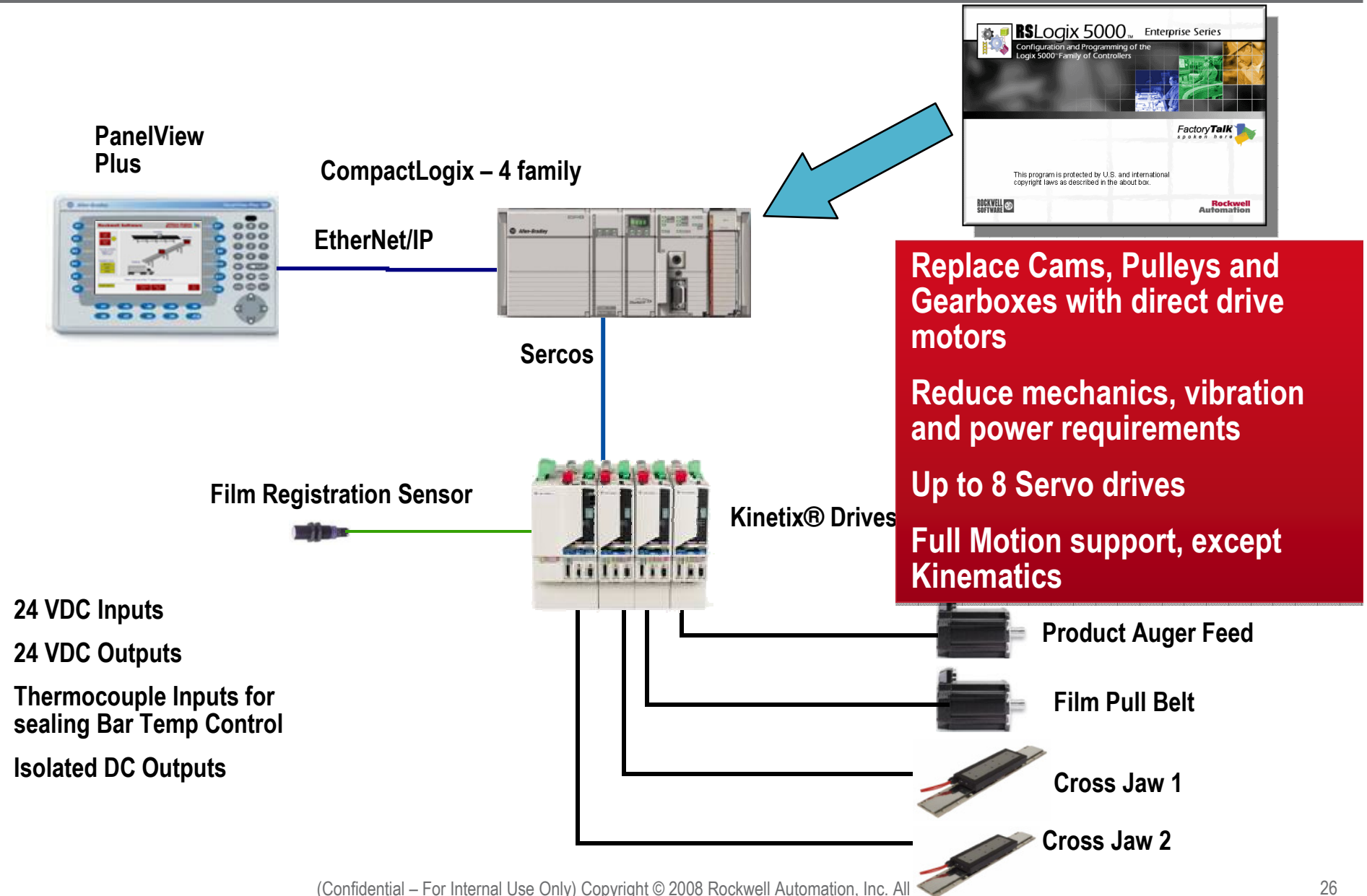
24 VDC Outputs

Thermocouple Inputs for sealing Bar Temp Control

Isolated DC Outputs

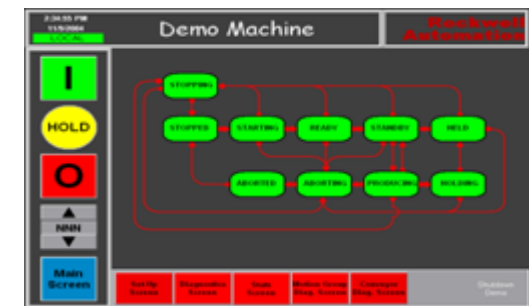
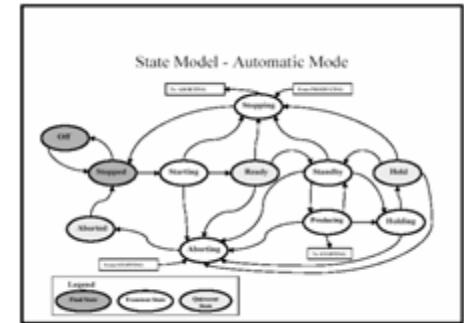


All Servo System w/ Direct Drive Technology

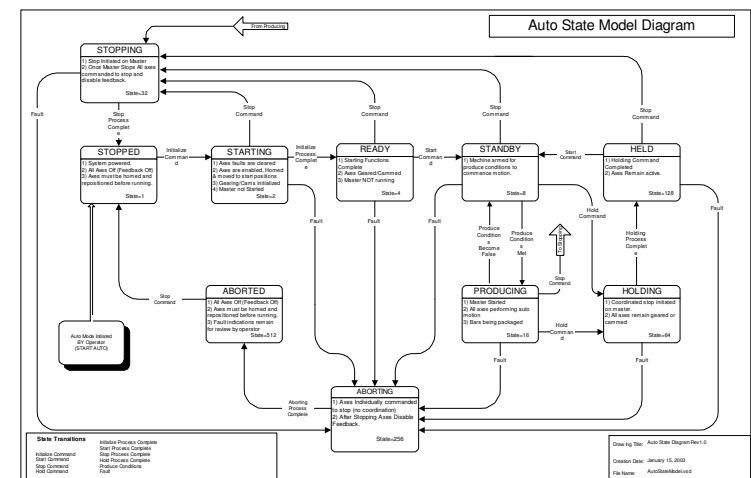


Power Programming

- Power Programming is the suggested Base Template for Rockwell Automation's Sample Code Library
- The Basic Templates includes
 - A PackML conforming Code Standard using S88 Terminology
 - An Interface for Using and Developing Modular Programs for Machines
 - Hooks to build own Application Notes and use Rockwell's build-up of distributable code
- Power Programming can help your OEM to:
 - Increase design efficiency (up to 50% reduction in design time)
 - Simplify field maintenance and save up to 40% on field maintenance next year
 - Create scalable systems using the same code base.
 - Provide improved access to production and diagnostic information
 - Show how efficiently the machine is running.

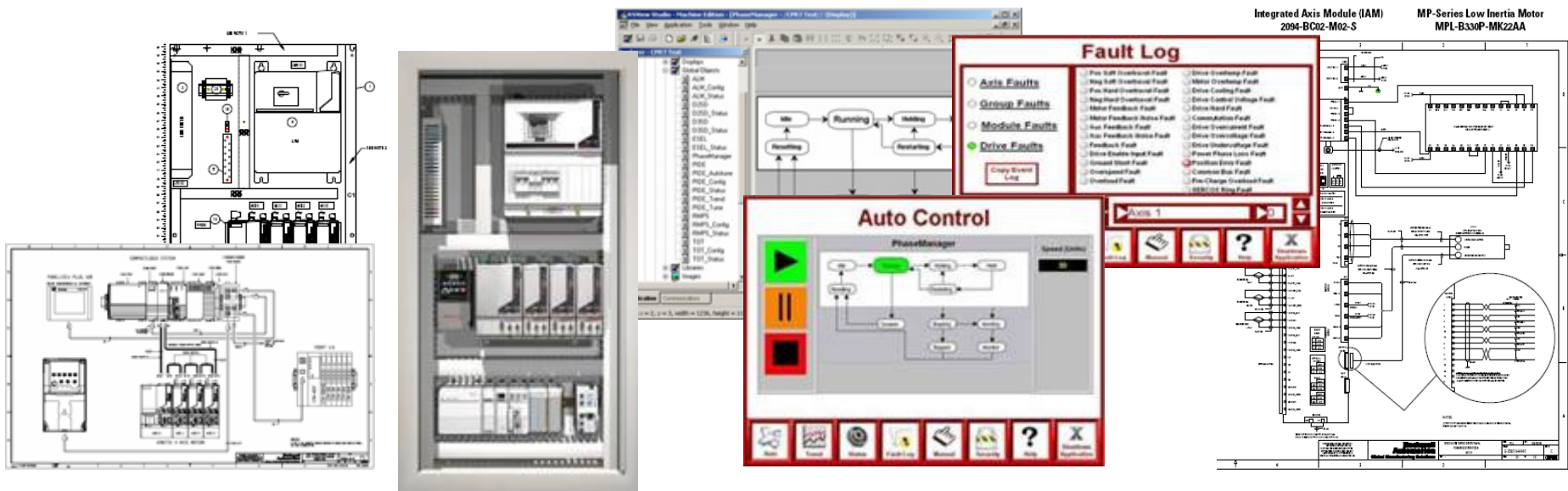


Power Programming package available on the Sample Code Website



Kinetix Accelerator Toolkit

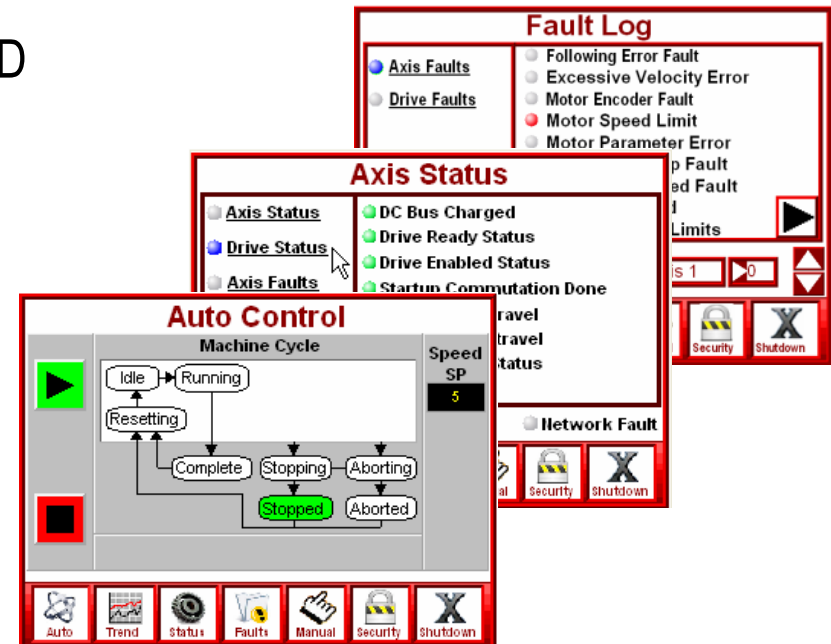
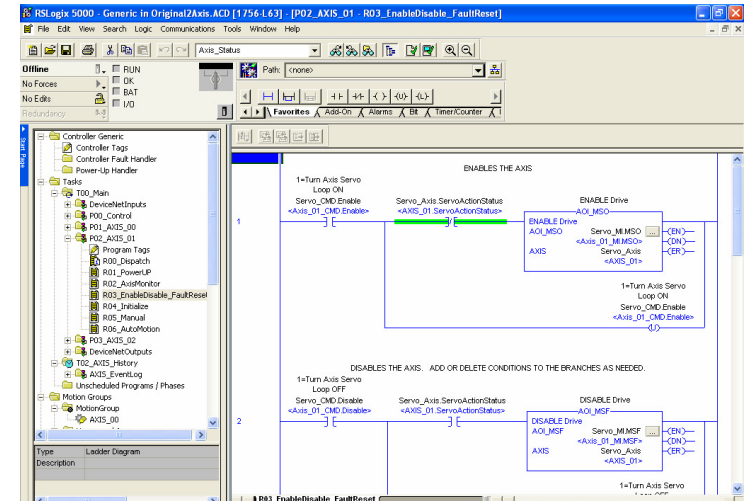
- Simplifies the design, manufacturing, start-up and support of Rockwell Automation motion control systems
 - KAT tools are documented to save up to 54% in design costs
 - Reduces support (by RA) needed to get new machine designs working
- The KAT CD provides the basic panel layout, wiring diagrams, Logix programs, HMI screens, selection tools and Quick Start literature to **speed time to market** of a new machine design.



Reduce OEM engineering and integration costs
Enable OEM innovation

What's New with the KAT in Version F?

- The Kinetix Accelerator Toolkit now includes the CompactLogix Indexing Motion Accelerator
 - Support for point-to-point motion systems in L2x and L3x Controllers
 - Ultra3000i Indexing Servo Drives on DeviceNet
 - Includes ladder logic, operator screens, CAD and a Quick Start



Simple Step-by-Step Setup

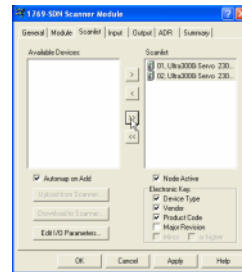
1. Drive Setup

Ultraware



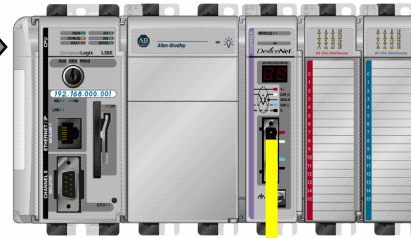
2. Network Setup

RSNetWorx
for DeviceNet



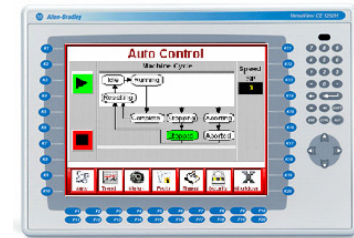
3. Logix Setup

RSLogix 5000



4. FT View ME Setup

FT View
Machine Edition



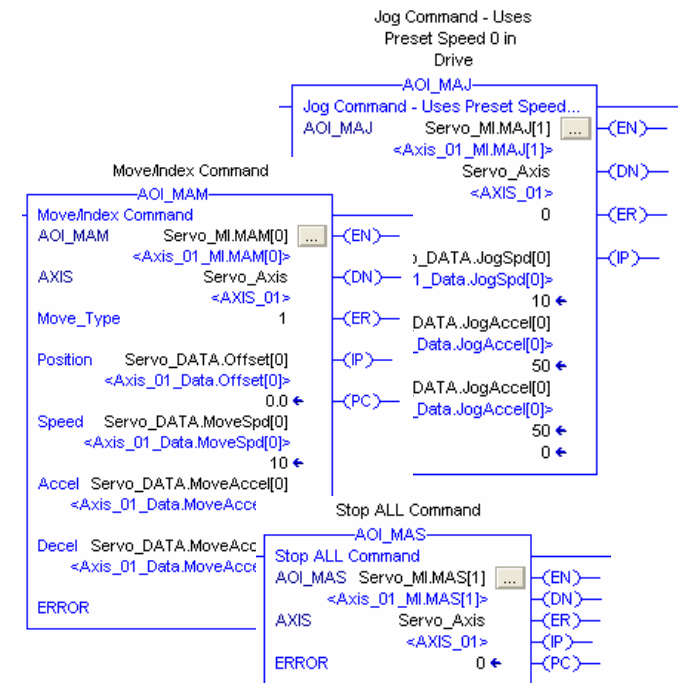
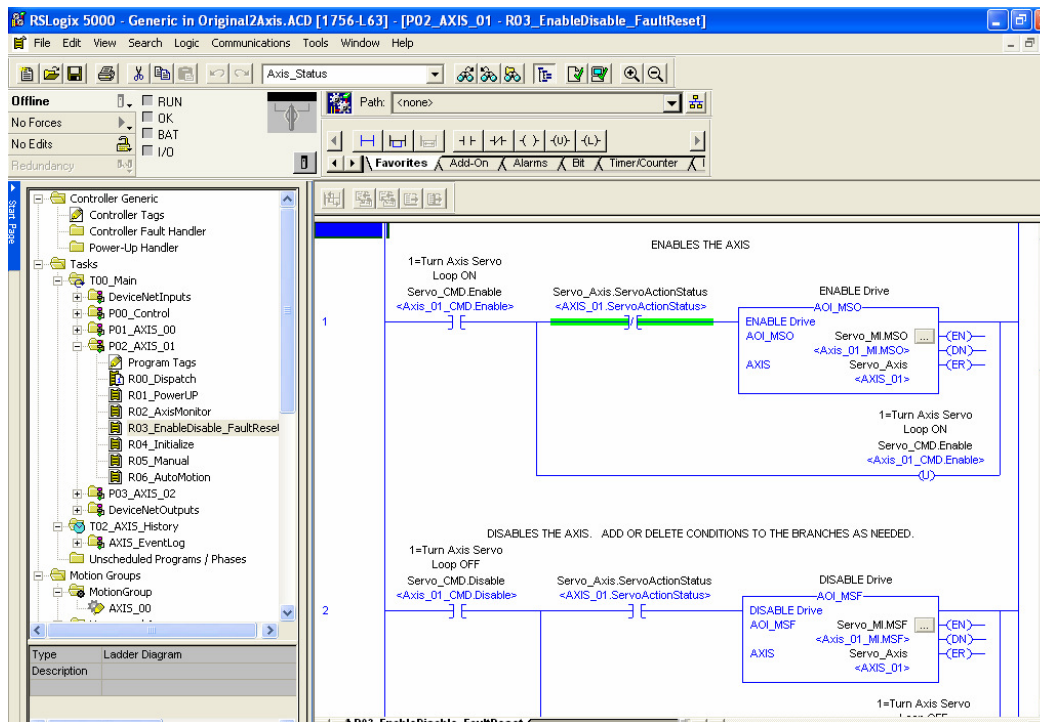
Available on the web:
<http://www.rockwellautomation.com/solutions/integratedarchitecture/resources.html>

KINETIX
ACCELERATOR
TOOLKIT CD



What is Included in the Sample Code?

- The CompactLogix Indexing Motion Sample Code is similar to the Kinetix Sample Code:
 - Manual and Automatic routines are included (without PhaseManager)
 - The Manual routine enables drive, homes and jogs the axis
 - The Automatic routine resets faults, enables drive and runs the axis



Agenda

1. Machine Builder Performance

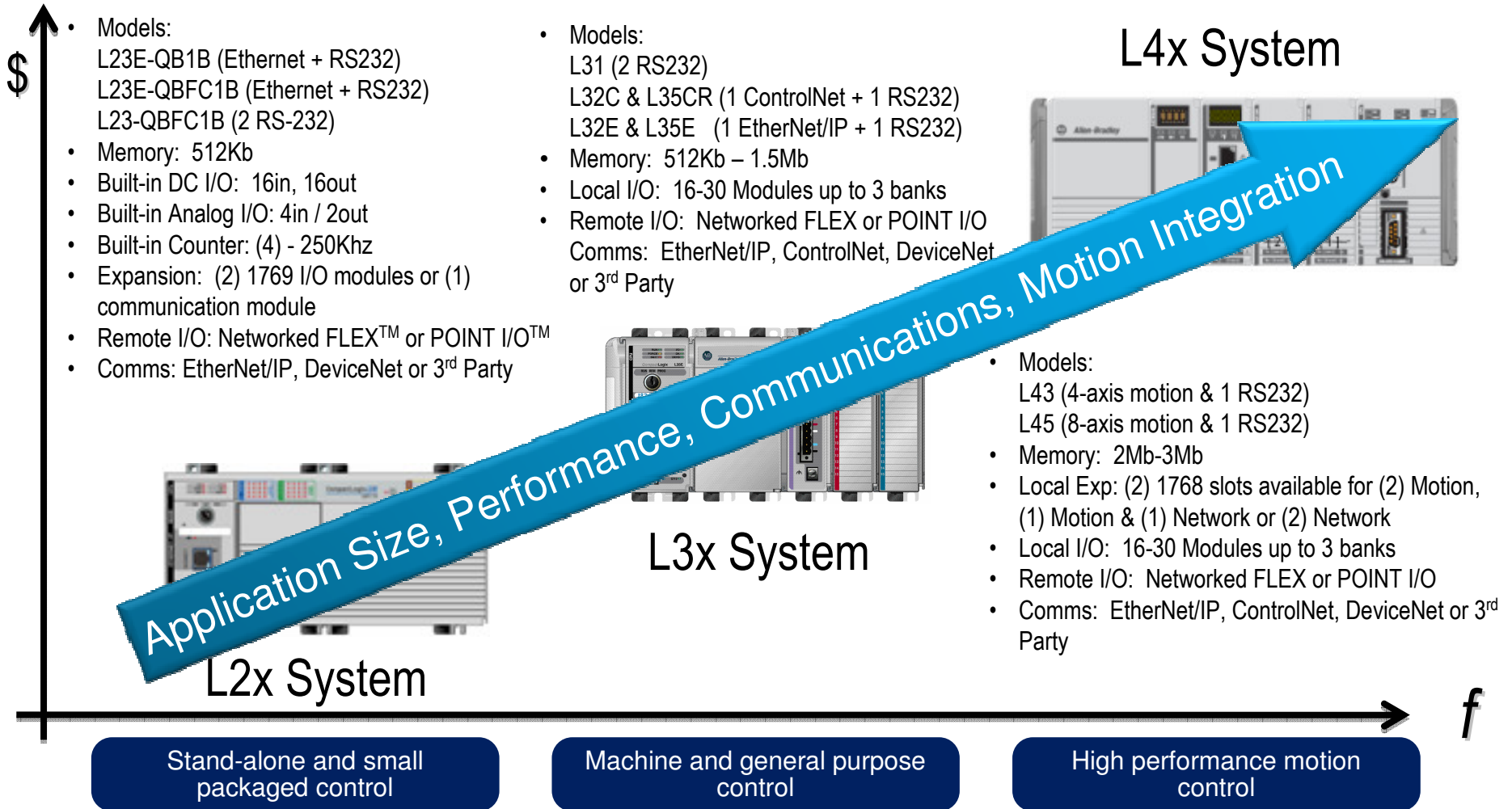
2. Compact Machine Solutions

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5. Questions ?

The CompactLogix Family Positioning

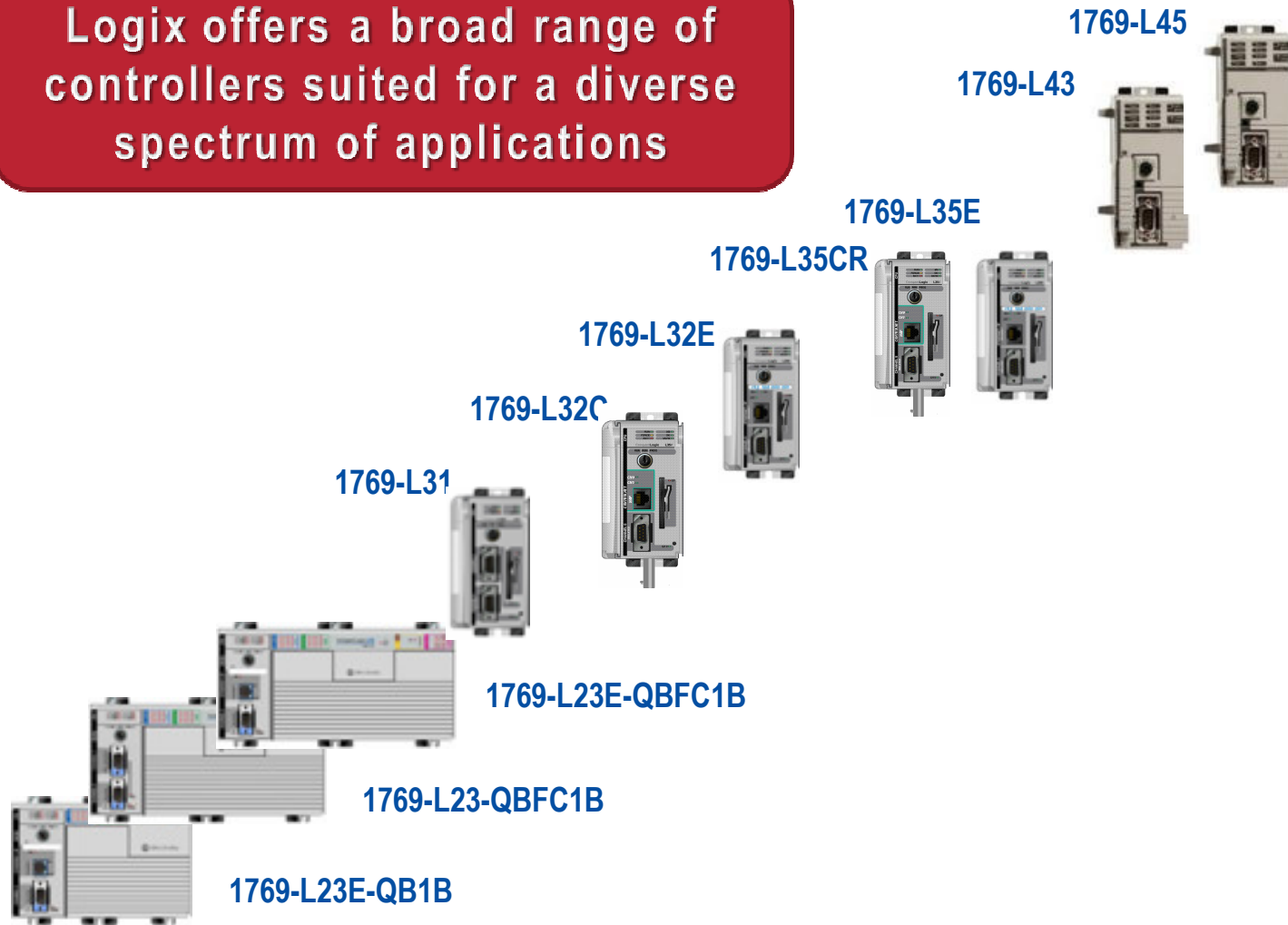


A range of controllers for simple stand-alone machines to some of the most demanding applications

Logix Controllers Offering

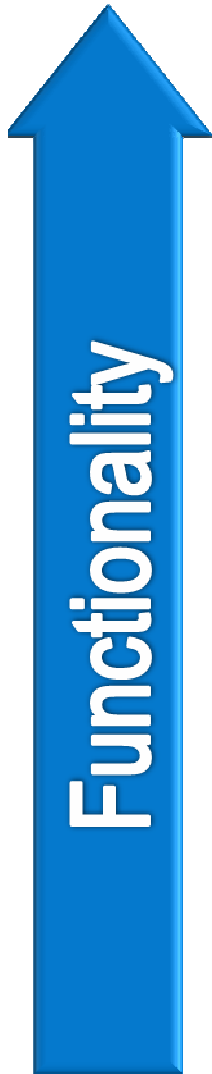
Logix offers a broad range of controllers suited for a diverse spectrum of applications

Value / Price



Functionality

CompactLogix Controllers

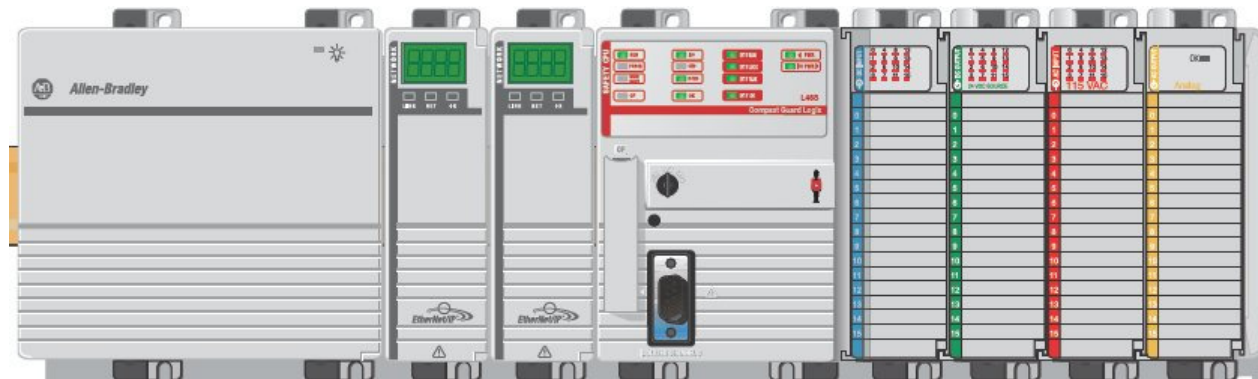


Cat. No.	Memory	Comms	Local IO Slots	Availability
1769-L45	3Mb	EtherNet/IP, ControlNet, DeviceNet, Sercos, 3 rd P	4 x 1768 & 30 x 1769	Now!
1769-L43	2Mb	EtherNet/IP, ControlNet, DeviceNet, Sercos, 3 rd P	2 x 1768 & 16 x 1769	
1769-L35E	1.5Mb	EtherNet/IP, DeviceNet, 3 rd P	30	
1769-L35CR	1.5Mb	ControlNet, DeviceNet, 3 rd P	30	
1769-L32E	750Kb	EtherNet/IP, DeviceNet, 3 rd P	16	
1769-L32C	750Kb	ControlNet, DeviceNet, 3 rd P	16	
1769-L31	512Kb	Serial, DeviceNet, 3 rd P	16	
1769-L23E-QBFC1B	512Kb	EtherNet/IP, DeviceNet, 3 rd P	2	Now!
1769-L23-QBFC1B	512Kb	Serial, DeviceNet, 3 rd P	2	Now!
1769-L23E-QB1B	512Kb	EtherNet/IP, DeviceNet, 3 rd P	3	Now!



Compact GuardLogix - Introduced with RSLogix 5000 V18

- Integrated Safety in Logix Mid Range control platform
 - Standard functionality identical to L43 and L45 Controllers
 - Full 1002 safety implementation, architecturally superior over Siemens
 - Safety partner processor (LSP) is embedded and hidden from the user
 - No imposed restrictions, full language, motion, communications (Siemens can't do this)
 - Safety functionality identical to GuardLogix
 - All the same safety instructions, security, EtherNet Safety I/O, etc
 - 1768 L43S - 2M Standard, ½ M Safety
 - 1768 L45S - 3M Standard, 1M Safety
- Will use CompactBlock Guard I/O and POINT Guard I/O on Ethernet/IP
 - DeviceNet Safety limitations are due to existing 1788-EN/DN linking device
 - Next Gen EN/DN is under development and will support CIP Safety, AFS TBD.



CompactLogix, Compact GuardLogix L4x PACS

CompactLogix PAC easily handles simple to complex motion, simple to complex safety over multiple networks

- Advanced, high speed motion and communications via 1768 expansion



L43, L45 Standard PAC



L43S, L45S Integrated Safety PAC



1769 local I/O

- Up to 8 modules on the local bank
- Maximum of 3 banks for a total of 30 modules
- DeviceNet with 1769-SDN scanner

Integrated Serial port
Network modules for EtherNet/IP & ControlNet
SERCOS motion module



Modular design provides the flexibility to select the right modules to fit the application



PowerFlex Drives Premier Integration

- Fully configure and program PowerFlex® Drives within the RSLogix 5000 Environment
- Drive parameters stored with the RSLogix 5000 project .acd file and controller memory = 1 FILE
- Simplifies I/O Data configuration
- Differentiates the configuration and maintenance of Rockwell Automation Drives with Logix

Named Data Links

Device Information

Parameter Monitor and setting list

Linear & Grouped Parameter List

Configuration Wizards

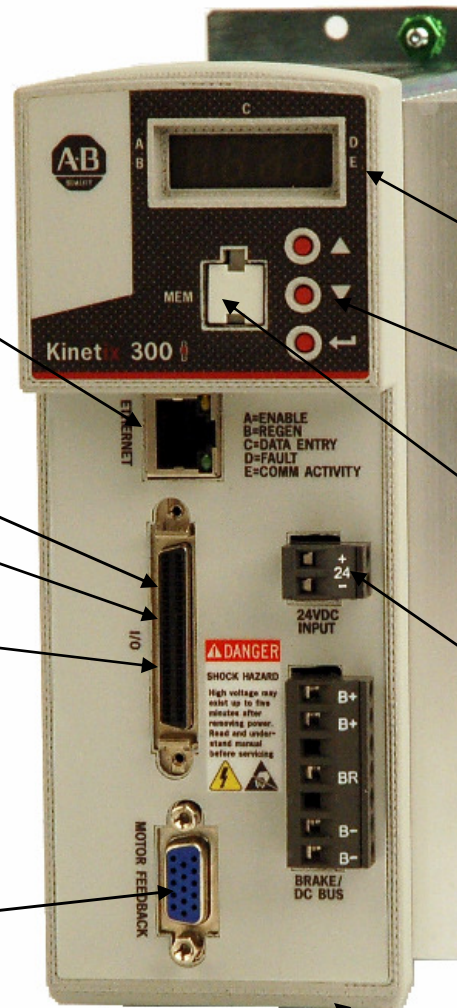
Item	Name	Value	Units	Min	Max
1	Output Freq	0.0	Hz	-500.0	500.0
2	Commanded Freq	0.0	Hz	-500.0	500.0
3	Output Current	0.00	Amps	0.00	32767.00
4	Torque Current	0.00	Amps	-32767.00	32767.00
5	Flux Current	0.00	Amps	0.00	690.0
6	Output Voltage	0.0	VAC	0.0	2400.00
7	Output Power Fctr	0.00	kW	0.00	1.00
8	Elapsed MWh	0.0	MWh	0.0	429496729.5
9	Elapsed Run Time	0.0	Hrs	0.0	429496729.5
10	MCP Frequency	0.0	Hz	-500.0	500.0
11	DC Bus Voltage	0.0	VDC	0.0	3276.7
12	DC Bus Monitors	0.0	VDC	0.0	819.2

Kinetix 300

400W – 3kW Power Range
120/230V single phase,
230/460V 3-phase models

32 Indexes w/ S-Curve capability
Commanded Control over
Ethernet/IP

ODVA certified EtherNet/IP support



4 Character Display

Keypad Input

Memory Module for ADR

Analog and Digital I/O

Analog and PTO Control

Electronic Gearing

24V backup power for
“Keep Alive” function

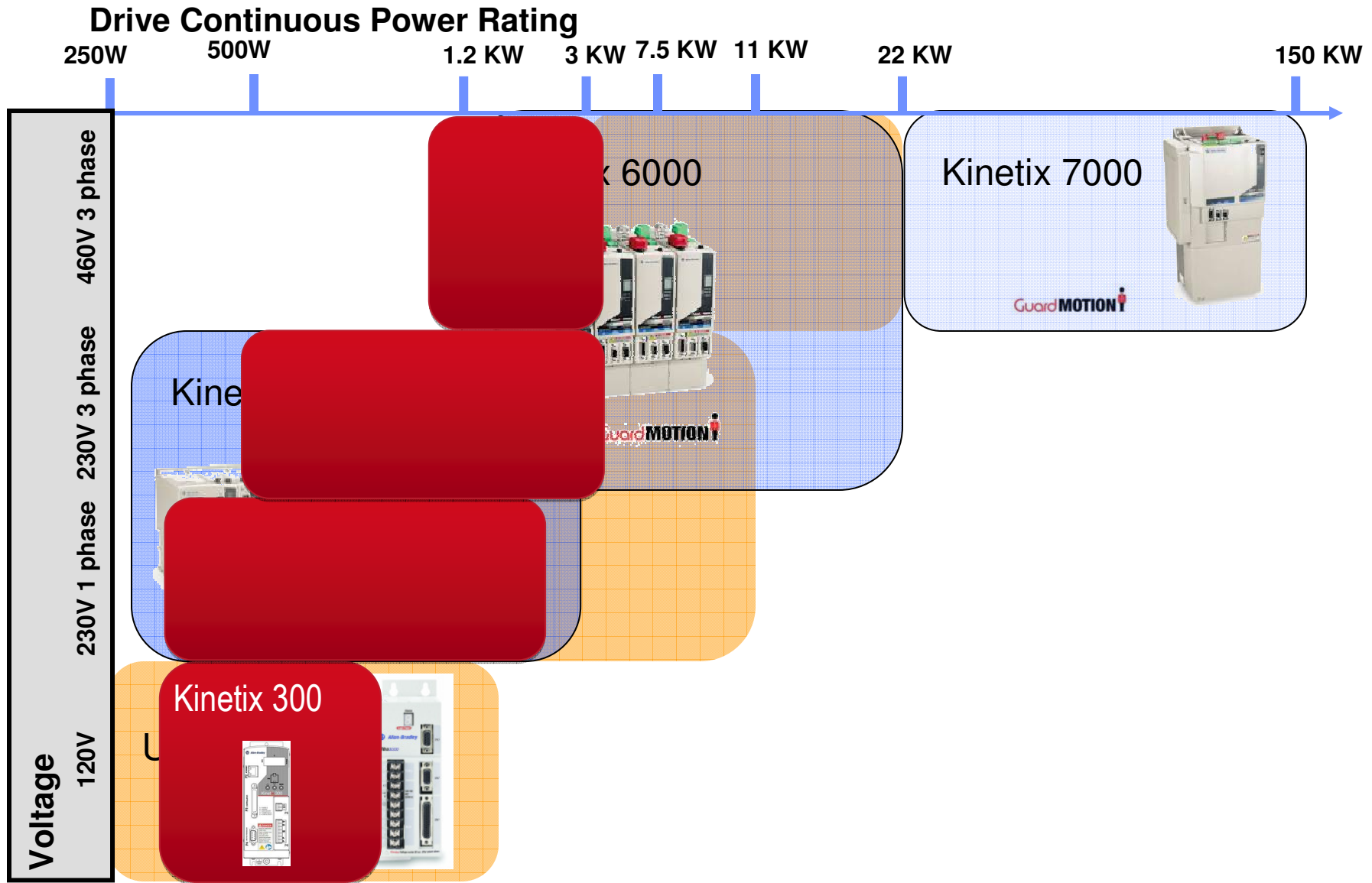
Absolute and Incremental
Feedback, MP and TLY motors.

Smart Motor Recognition
Technology – Plug and Play

Auto Tuning

Integrated Safe Torque Off
ISO 13849-1 Safety Category
3 PL d

Kinetix Family of Servo Drives



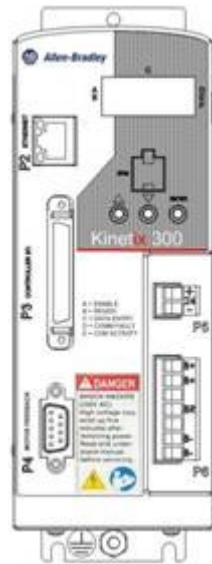
Kinetix 300 Models and Availability

RA Catalog Number	Description	Power [kW]
2097-V31PR0	1 Φ , 2A, 120/240V, No Filter (120VAC input can drive 240V motor at full speed)	0.4
2097-V31PR2	1 Φ , 4A, 120/240V, No Filter (120VAC input can drive 240V motor at full speed)	0.8
2097-V32PR0	1 Φ , 2A, 240V, Integral Filter	0.4
2097-V32PR2	1 Φ , 4A, 240V, Integral Filter	0.8
2097-V32PR4	1 Φ , 8A, 240V, Integral Filter	1.7
2097-V33PR1	1 Φ 3 Φ , 2A, 240V, No Filter	0.5
2097-V33PR3	1 Φ 3 Φ , 4A, 240V, No Filter	1.0
2097-V33PR5	1 Φ 3 Φ , 8A, 240V, No Filter	2.0
2097-V33PR6	1 Φ 3 Φ , 12A, 240V, No Filter	3.0
2097-V34PR3	3 Φ , 2A, 480V, No Filter	1.0
2097-V34PR5	3 Φ , 4A, 480V, No Filter	2.0
2097-V34PR6	3 Φ , 6A, 480V, No Filter	3.0

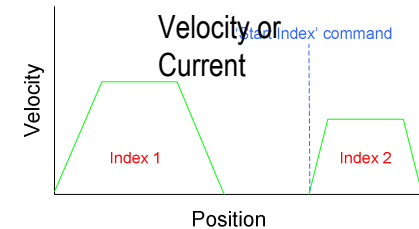
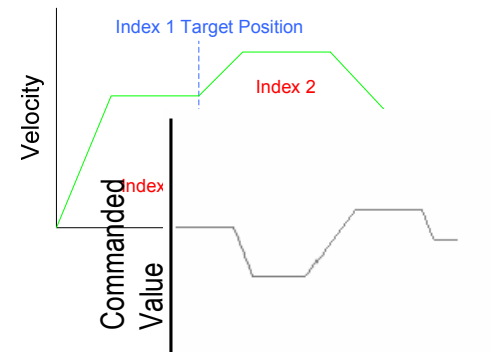
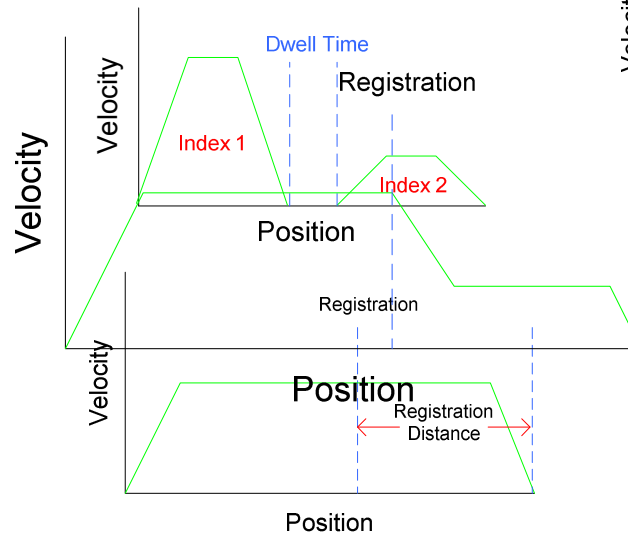
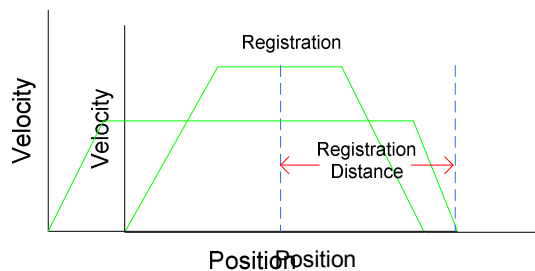
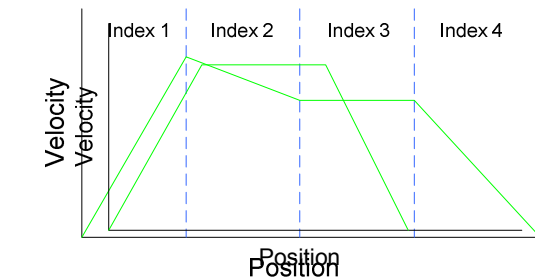
CompactLogix - EtherNet/IP Operating Modes

Commanded Control

Motor Support
MP and TLY
Absolute and Incremental

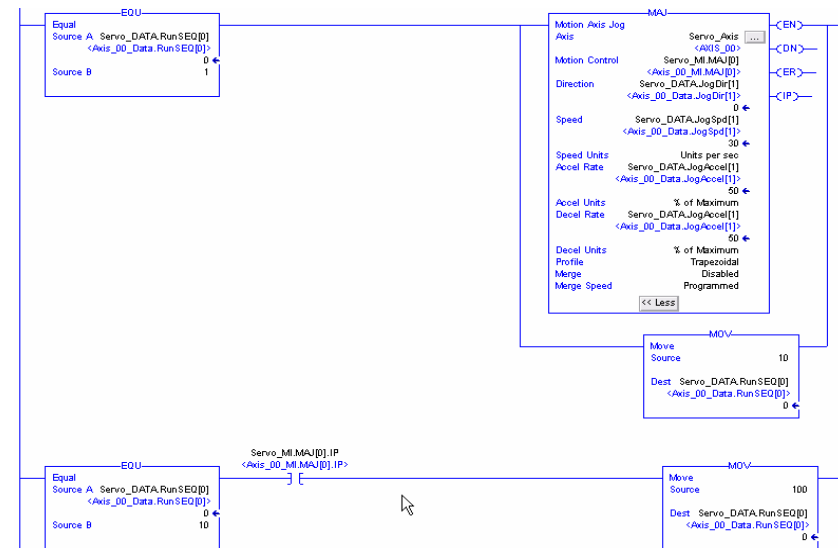


Control Connection:
EtherNet/IP



Using Logix AOIs

- For customers who are familiar with Integrated Motion Programming in Logix....
 - Rockwell is developing a set of AOIs that correlate to the existing Integrated Motion using Logix commands, so you can control the drive similar to Kinetix integrated motion servo drives such as the Kinetix 6000 or 6200. Look for these to be posted on the sample code web site sometime in Q1CY2010



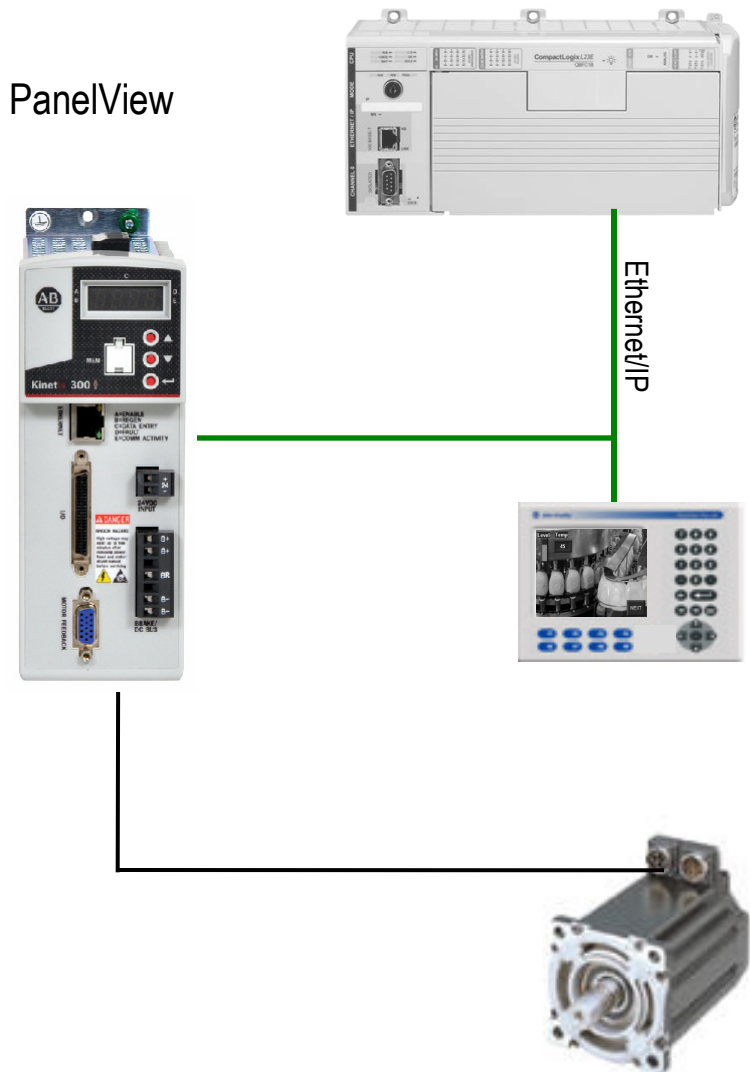
Kinetix 300 Architecture solution

Solution

CompactLogix L2x, Kinetix 300, MP-Series (MPL) motor and PanelView Plus Compact and Stratix switch

Features

- Power – 400W to 3kW
- Voltage – 120/230/460V
- Network – EtherNet/IP Class 1 Messaging
- Control – EtherNet/IP, Indexing
- Safety – Safe Off
- Motor – MP-Series (MPL)
- Feedback – High Resolution
- Configuration
 - RSLogix 5000 with Add-On-Profile
 - Kinetix 300 web browser
- Tuning – Auto tuning



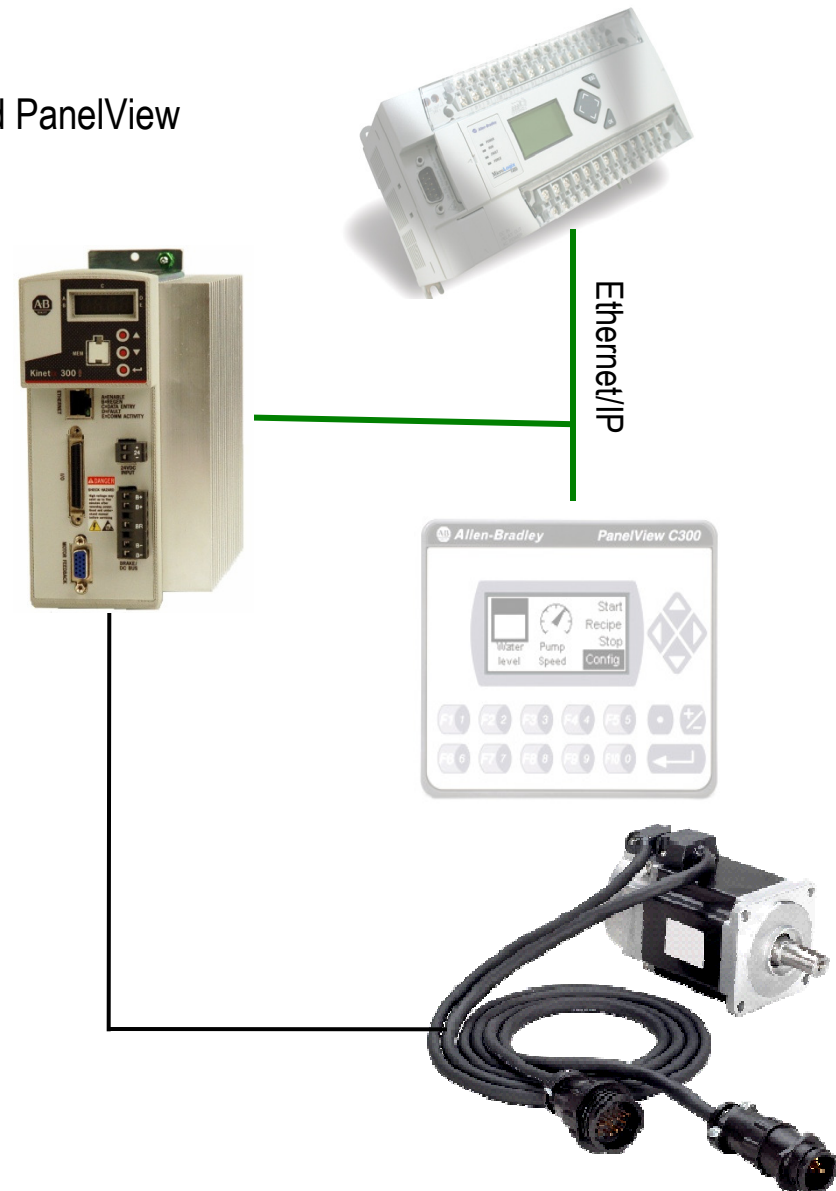
Kinetix 300 component solution

Solution

Micrologix 1400, Kinetix 300, TL-Series (TLY) motor and PanelView Component and Stratix switch

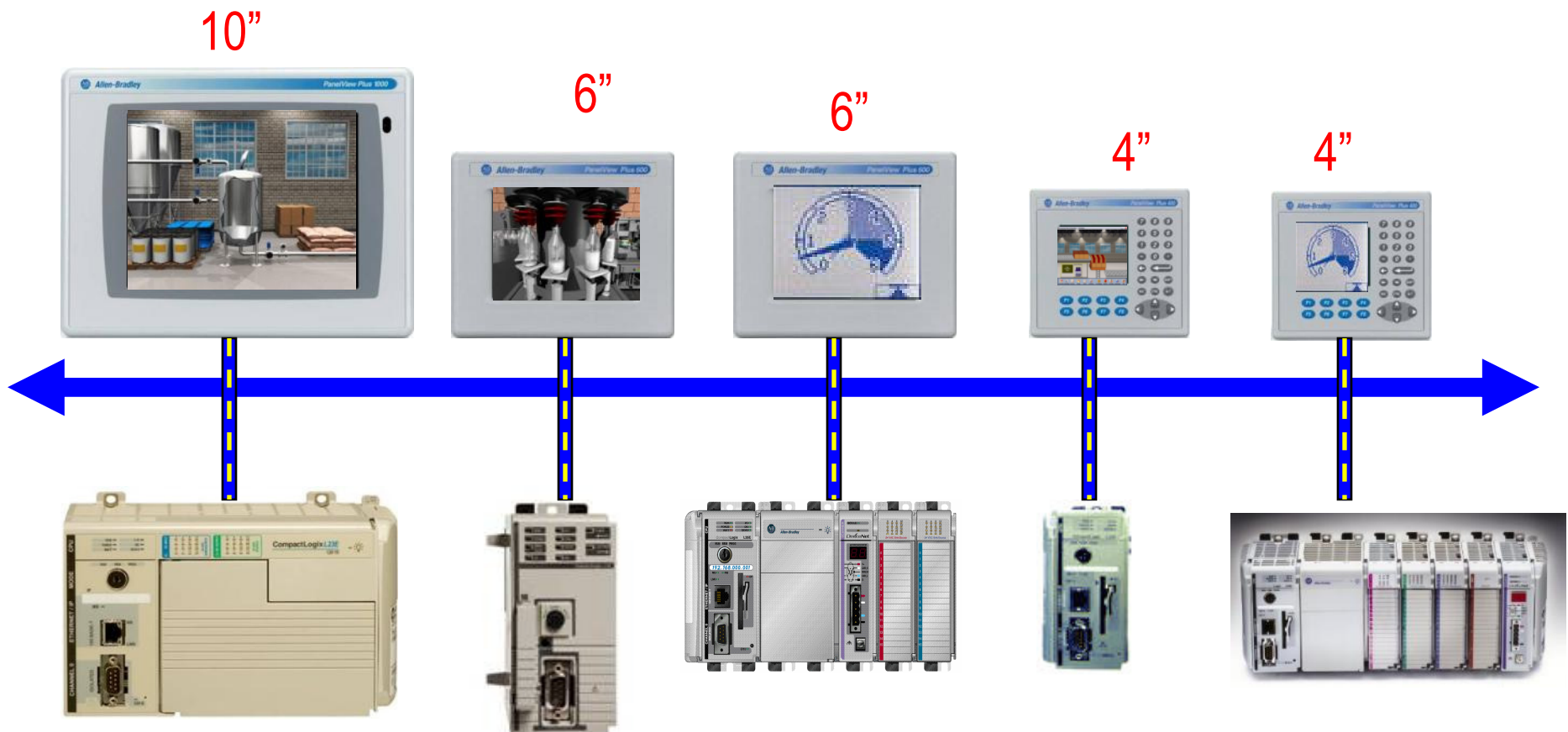
Features

- Power – 400W to 3kW
- Voltage – 120/230/460V
- Network – EtherNet/IP Class 3 Messaging
- Control – PTO, Indexing, Analog, or EtherNet/IP
- Safety – Safe Off
- Motor – TL-Series (TLY) series
- Feedback – 17 bit abs
- Configuration – RSLogix 500, Kinetix 300 web browser
- Tuning – Auto tuning



What is PanelView Plus Compact?

A selective offering of lower priced and feature PanelView Plus terminals optimized for reduced sized applications targeted for L2x and L3x controllers



PanelView Plus Compact

- Connects to a single controller
 - Single port/driver support – Linx Enterprise or KepWare
 - CompactLogix, ControlLogix or MicroLogix
- Serial and Ethernet Connections only
- Limited to 25 displays
- Limited to 200 alarms
- ViewPoint server not supported
- Aligns with FTView ME 5.1 release



Compact Machine Solutions (“CMS”) Toolkit Program

The Program CMS Toolkit Program

- Compact Machine Solution Focus for OEM Customers
- Available to companies that provide value add services and machine solutions
- Global Program Access

Benefits

- Comprehensive set of software development tools
- eConnect Support Option (Includes software downloads)
- Additional Support Options Available: 7x24, 8-5 priority, 24x7 priority
- Access to Online Productivity Tools
- Access to Knowledge Network Virtual Learning Series

“Compact Machine Solutions” Toolkit Contents

Product	Catalog Number	Activation Key Name
¹ RSLogix 5000 Lite Edition - includes: RSLogix 5000 Mini Edition, RSLogix 5000 Multi-Language Pack (FBD, SFC, & ST) RSLinx Lite Communications Drivers	9324-RLD250ENE 9324-RLD200ENE 9324-RLDMLPE N/A	RS5K_200.EXE RS5K_MLP.EXE N/A
RSLogix 5000 PhaseManager Option	9324-RLDPME	RS5K_EPH.EXE
RSLogix Micro Developer	9324-RLM0800ENE	RSMICROD.EXE
RSLogix Architect	9326LGXARCHENE	RSARCH.EXE
PicoSoft Pro	1760-PICOSOFTPRO	N/A - On CMSRevs DVD
FactoryTalk View Studio for Machine Edition	9701-VWSTMENE	RSVME.STUDIO
RSNetWorx for ControlNet, DeviceNet, and Ethernet/IP	9357-ANETL3	RSNTWCN3.EXE, RSNTWDN3.EXE, RSNTWEN3.EXE
FactoryTalk VantagePoint EMI Server (with User-Supplied MSSql) - includes FactoryTalk VantagePoint Dashboard Builder (per named user)	9521-VPBEMSRVENE	VPEMISRV.sys, VPNmUser.lmt, VPFctTlk.con, VPlnSql.hst, VPOSIPI.hst, VPPProf.hst, VPOpcHda.hst, VPOpcDa.rt, VPDb.con, VPOdbc.db, VPMsSql.db, VPOledb.db, VPOracle.db, VPCalc.con, VPInc.con, VPTags.con, VPSstore.pgn, VPFflash.pgn, VPPReport.pgn, VPTbldr.cln, VPSqlclr.cln, VPSstore.inf, VPCalc.inf, VPTags.inf
FactoryTalk VantagePoint 1 Named User Client	9521-VPNL01ENE	VPNmUser.lmt
FactoryTalk VantagePoint 3rd-party Real-time Connector	9521-VPRTCENE	VPLimit.rt
FactoryTalk VantagePoint 3rd-Party Historian Connector	9521-VPHSCENE	VPLimit.hst
FactoryTalk VantagePoint Database Connector	9521-VPDMDBCENE	VPLimit.db
UltraWARE	2098-UWCPRG	N/A - On CMSRevs DVD
¹ Drive Tools SP - includes DriveExecutive & DriveObserver	9303-4DTS01ENE	N/A - On CMSRevs DVD
¹ DriveExplorer	9306-4EXP02ENE	N/A - On CMSRevs DVD
¹ A-B PanelBuilder for STD PV's	2711-ND3	N/A - On CMSRevs DVD
Connected Components Building Blocks	CC-QR001B-MU-C	N/A - On CMSRevs DVD
IntelliCENTER Software	2101A-INTLCNTR	N/A - On CMSRevs DVD
Transim (Web-based engineering tools for drive simulations)	N/A	N/A - On CMSRevs DVD
eConnect Support	9810-ECACOEMA	N/A
* PanelView Component Offline Configuration Utility	* When Available	* When Available

List Price Value is over \$8000 per install

CMS Toolkit Pricing

Compact Machine Solutions (CMS) Program						
Number of Installs	RSTechED Training Seats	eConnect & Download	DirectConnect M-F 8am - 5pm	PriorityConnect M-F 8am - 5pm	DirectConnect 24x7x365	PriorityConnect 24x7x365
1	can purchase	\$450	\$895	\$985	\$1,175.00	\$1,275.00
3	can purchase	\$900	\$1,340	\$1,450	\$1,775.35	\$1,904.55
5	can purchase	\$1,375	\$1,490	\$1,605	\$1,865.07	\$2,000.18
10	can purchase	\$2,500	\$2,400	\$2,615	\$3,059.72	\$3,299.51
15	can purchase	\$3,375	\$3,175	\$3,490	\$4,111.37	\$4,449.62
20	can purchase	\$4,000	\$3,920	\$4,305	\$5,085.37	\$5,499.78
25	can purchase	\$4,375	\$4,550	\$4,995	\$5,889.74	\$6,370.05

All prices are expressed in US dollars unless otherwise indicated. Prices and discount offers refer to the Rockwell Automation Suggested List Price and may not be inclusive of any local taxes or fees.

Program participant should contact the local Rockwell Automation Distributor or Rockwell Automation sales office for actual pricing, discount and availability information.

This information is provided for informational purposes only, and the information herein is subject to change without notice.

1/2-year and 3/4-year price prorations at .60 and .80 - new enrollments only
Note: All Toolkits purchased require the same level of support

Agenda

1. Machine Builder Performance

2. Compact Machine Solutions

3. Optimized Architectures

4. Newly released related products

5. Questions ?

In Summary

- CMS is focused on OEMs moving from basic mechanical machines into next level machines that leverage Logix capabilities
- Information Enabled machines are the next big thing.
- Integrated motion & PowerFlex premier integration offers a unique opportunity to help OEMs understand the value of a unified architecture
- The Integrated Architecture allows for efficient, fast and flexible machines
- Understand the positioning of the different solutions and “rightsize” the offering to your customers
- PROVIDE FEEDBACK... For our continuous improvement

The Integrated Architecture offers a scalable solution that can evolve with your OEM business and machine innovations



Questions ??



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jjtaylor@ra.rockwell.com

(Confidential – For Internal Use Only)



Thank you for participating!

Please complete the session survey and hand it in before you leave!

(Confidential – For Internal Use Only)