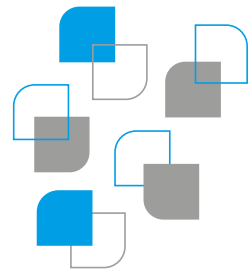
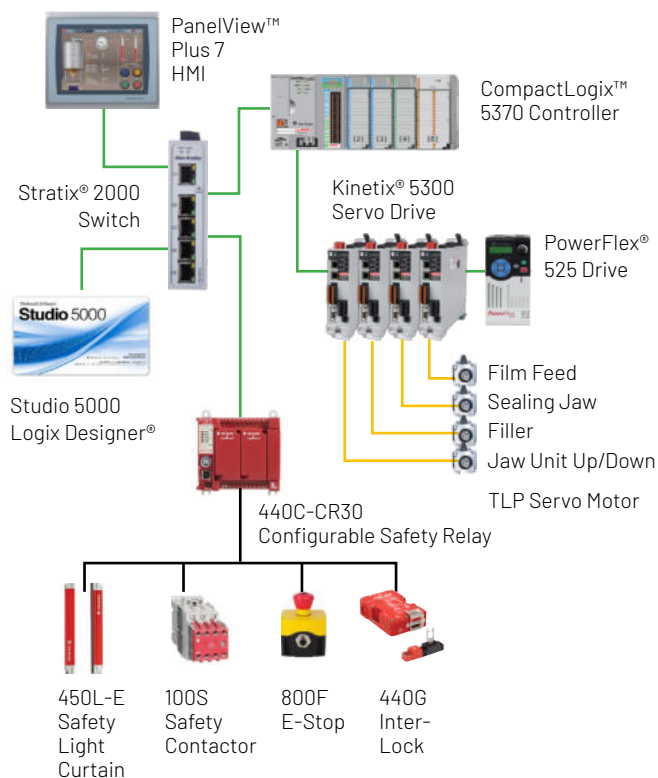


VFFS VERTICAL FORM, FILL & SEAL MACHINE STANDARD SOLUTION



Standard Solution Architecture



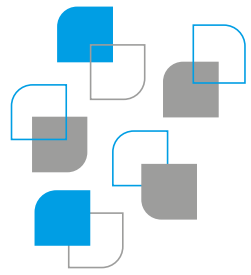
Machine/OEM Challenges & Needs

- Flexibility to handle multiple SKUs
- Configurability for different feeding systems
- Motion synchronization of machine components
- Precise tension control
- Print-mark control
- Temperature control
- Detailed diagnostic information for ease of operations & maintenance
- IIoT-ready
- Compliance to industry standards – PackML

Solution & Benefits

- Proven configurable solution tested across a wide variety of VFFS machines.
- Modular programming fully compliant with PackML standard
- High performance hardware with scalability to fit your exact requirements
- EtherNet/IP™ based single network architecture
 - Reduces commissioning time
 - Simplifies diagnostics & maintenance
 - IIoT-ready
- Mechatronics design tools simplify design & development cycle
- Adaptive motion solution to adjust to changing load requirements
- Totally integrated electronic – camming simplifies synchronization

VFFS VERTICAL FORM, FILL & SEAL MACHINE STANDARD SOLUTION



Reduce machine development cost & time to market

- One stop supplier – complete portfolio of the automatic system – controller, HMI, motion, DST, safety, network, and sensor portfolio offerings compliant with global standards and with worldwide service.
- Integrated architecture offers a scalable, multi-discipline control platform through a single programming environment – Studio 5000®, over a single network (EtherNet/IP™) and provides simplified integration.
- Application templates aligned with global standards (PackML, ISA-88) accelerate development and commissioning & save significant development time.
- Comprehensive sizing & design tools such as motion analyzer, integrated architecture builder and safety automation builder speed up design and reduce costly design errors.

Improve machine performance and capabilities to differentiate from the competition

Multi-discipline control platform (Logix) provides a solid infrastructure for building a high-performance machine.

- Information systems enables data-driven operation
 - access to machine operation information (OEE), performance dashboards and opportunity to interface with high-level information systems like line control & MES.
- Expertise of OEM technical consultants provide strong support to optimize machine performance and achieve advanced features.

Reduce the machine downtime, improve OEE & enhance operator safety

- EtherNet/IP™ network provides real-time data & diagnostic information.
- Fast replacement of failed hardware with ADC (automatic device configuration) product feature reduces significant downtime.
- Complete smart machine safety system improves the reliability of the machine and enables safe environment for operators.

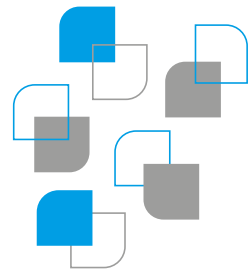
Provide machine flexibility

- Comprehensive batch control solution LBSM (Logix Batch and Sequence Manager) to support “one button” production changeover.
- Online editable electronic CAM profiles support the dynamic change of machine operation to fulfill flexible production.

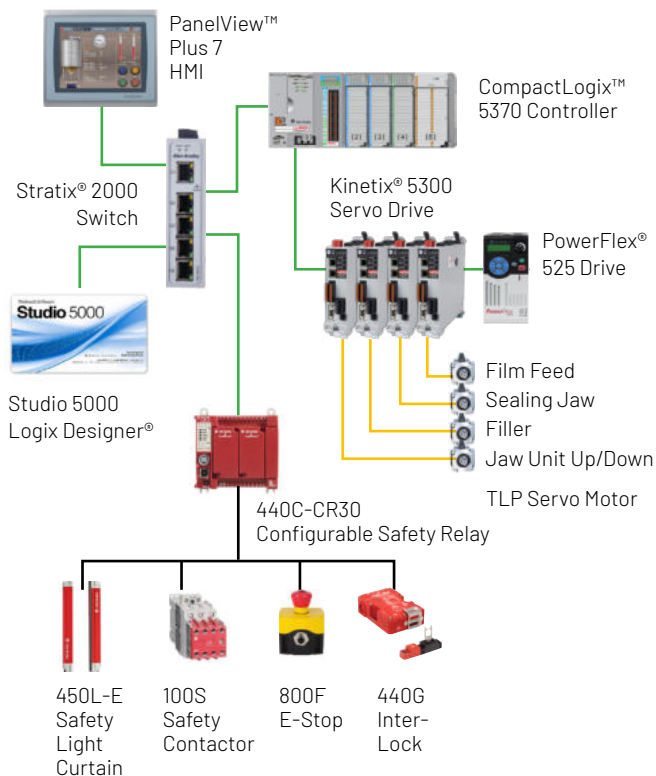
What's additional

- Differentiate from the competition and create new revenue models with an IIoT-ready solution, leverage controller bases MQTT, and tap on AR/VR technologies, analytics and machine learning through FactoryTalk® InnovationSuite powered by PTC.
- With the Emulate3D™ engineering software, develop dynamic digital twin software for virtual commissioning, throughput simulation, and industrial demonstration.
- Independent cart technology (ICT) can improve machine flexibility, simplify mechanical design, reduce maintenance costs, and improve machine speed.
- Reduce downtime with predictive maintenance solution leveraging new technologies like LogixAI® (machine learning) & ICM (condition monitoring).
- Global support with a local address is available to help customers maximize productivity and minimize risks.

VFFS VERTICAL FORM, FILL & SEAL MACHINE ADVANCED SOLUTION



Advanced Solution Architecture



Machine/OEM Challenges & Needs

- Flexibility to handle multiple SKUs
- Configurability for different feeding systems
- High throughput
- Motion synchronization of machine components
- Precise tension control
- Print-mark control
- Temperature control
- Detailed diagnostic information for ease of operations & maintenance
- IIoT-ready
- Compliance to industry standards – PackML

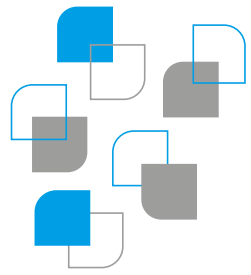
Solution & Benefits

- Proven configurable solution tested across a wide variety of VFFS machines.

Some key features include:

- Constant seal time at different speeds
- Belt scale calibration
- Flow meter integration
- Continuous motion operation for carriage-based sealing
- Zero wastage on power recycle - Integrated safety solution
- Modular programming fully compliant with PackML standard
- High performance hardware with scalability to fit your exact requirements
- EtherNet/IP™ based single network architecture
 - Reduces commissioning time
 - Simplifies diagnostics & maintenance
 - IIoT-ready
- Mechatronics design tools simplify design & development cycle
- Adaptive motion solution to adjust to changing load requirements
- Totally integrated electronic – camming simplifies synchronization

VFFS VERTICAL FORM, FILL & SEAL MACHINE ADVANCED SOLUTION



Reduce machine development cost & time to market

- One stop supplier – complete portfolio of the automatic system – controller, HMI, motion, DST, safety, network, and sensor portfolio offerings compliant with global standards and with worldwide service.
- Integrated architecture offers a scalable, multi-discipline control platform through a single programming environment – Studio 5000®, over a single network (EtherNet/IP™) and provides simplified integration.
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Multi-discipline control platform (Logix) provides a solid infrastructure for building a high-performance machine.

- Information systems enables data-driven operation
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Reduce the machine downtime, improve OEE & enhance operator safety

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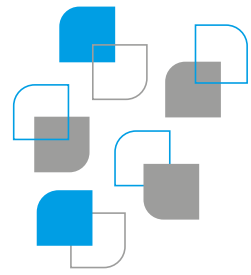
Provide machine flexibility

- Comprehensive batch control solution LBSM (Logix Batch and Sequence Manager) to support “one button” production changeover.
- Online editable electronic CAM profiles support the dynamic change of machine operation to fulfill flexible production.

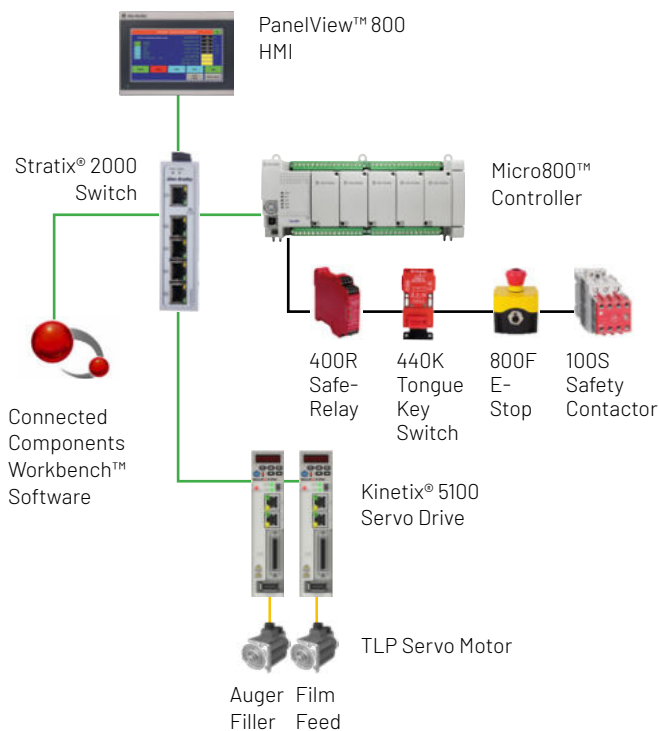
What's additional

- Differentiate from the competition and create new revenue models with an IIoT-ready solution, leverage controller bases MQTT, and tap on AR/VR technologies, analytics and machine learning through FactoryTalk® InnovationSuite powered by PTC.
- With the Emulate3D™ engineering software, develop dynamic digital twin software for virtual commissioning, throughput simulation, and industrial demonstration.
- Independent cart technology (ICT) can improve machine flexibility, simplify mechanical design, reduce maintenance costs, and improve machine speed.
- Reduce downtime with predictive maintenance solution leveraging new technologies like LogixAI® (machine learning) & ICM (condition monitoring).
- Global support with a local address is available to help customers maximize productivity and minimize risks.

VFFS VERTICAL FORM, FILL & SEAL MACHINE STANDALONE SOLUTION



Standalone Solution Architecture



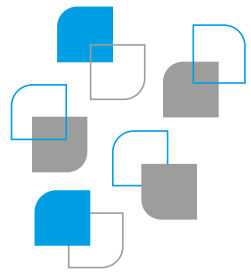
Machine/OEM Challenges & Needs

- Flexibility to handle multiple SKUs
- Configurability for different feeding systems
- Print-mark control
- Temperature control
- Cost-effective solution

Solution & Benefits

- Proven configurable solution
 - Adjustable pouch length
 - Adjustable volume
- One common CCW programming software and tool for controller, HMI, and motion and safety components, provide easy configuration, programming & commissioning
- Advanced HMI with remote accessibility for customers

VFFS VERTICAL FORM, FILL & SEAL MACHINE STANDALONE SOLUTION



Reduce machine development cost & time to market

- One stop supplier – complete portfolio of the automatic system – controller, HMI, motion, DST, safety, network, and sensor portfolio offerings compliant with global standards and with worldwide service.
- Application templates aligned with global standards (PackML, ISA-88) accelerate development and commissioning & save significant development time.
- Comprehensive sizing & design tools such as motion analyzer, integrated architecture builder and safety automation builder speed up design and reduce costly design errors.

Improve machine performance and capabilities to differentiate from the competition

- Information systems enables data-driven operation
 - access to machine operation information (OEE), performance dashboards and opportunity to interface with high-level information systems like line control & MES.
- Expertise of OEM technical consultants provide strong support to optimize machine performance and achieve advanced features.

Reduce the machine downtime, improve OEE & enhance operator safety

- EtherNet/IP™ network provides real-time data & diagnostic information.
- Complete smart machine safety system improves the reliability of the machine and enables safe environment for operators.
- Fully configurable parameter control via HMI enables “one button” production changeover which facilitates flexible operations.

What's additional

- Fully scalable solution starting from a basic machine up to higher end applications.
- Differentiate from the competition and create new revenue models with an IIoT-ready solution, leverage controller bases MQTT, and tap on AR/VR technologies, analytics and machine learning through FactoryTalk® InnovationSuite powered by PTC.
- With the Emulate3D™ engineering software, develop dynamic digital twin software for virtual commissioning, throughput simulation, and industrial demonstration.
- Independent cart technology (ICT) can improve machine flexibility, simplify mechanical design, reduce maintenance costs, and improve machine speed.
- Reduce downtime with predictive maintenance solution leveraging new technologies like LogixAI® (machine learning) & ICM (condition monitoring).
- Global support with a local address is available to help customers maximize productivity and minimize risks.