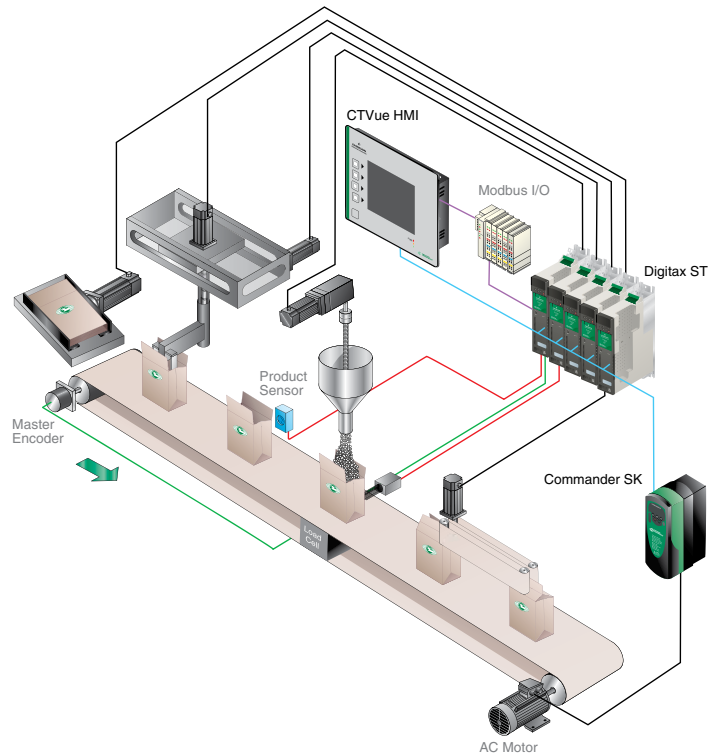


Horizontal Form Fill & Seal

Application Overview

A form fill and seal system implements several technologies. Typical system may have three stations to Form, Fill and Seal the package. In the first station, the package is erected while in motion and synchronized to conveyor, the second station, package is filled by weight when conveyor is in dwell state, and the final station, the package is closed and sealed in motion that is also perfectly synchronized to conveyor for a uniform seal. Remote I/O can be implemented for upstream and/or down stream interlocking and remote control of system.



Application Requirements

Control

- Synchronized motion
- High speed gross weighing
- Remote I/O

Protection

- Quick product change over
- Speed matching

System Cost

- Minimize system components
- Reduce development time

Control Techniques' Solutions

Servo Drives and Motors, VFDs, and HMIs

- Programmable electronic cam tables
- Up to 250 μ sec. update rate
- Registration / limit distance
- Recipe creation / cam selection
- Master encoder input / output
- Built-in automation controller capabilities



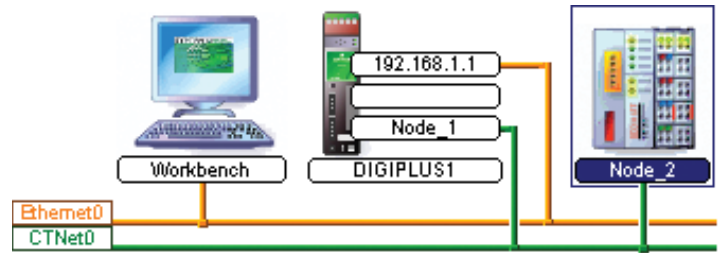
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Horizontal Form Fill & Seal Solutions

Control Techniques' Performance Advantages

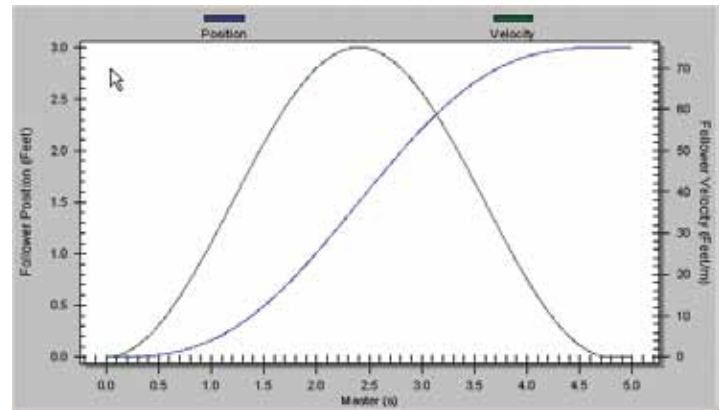
Built-in Functions

- Camming
- 380 function blocks
- PLC Open function blocks
- CT-Net network
- CT-Sync



Advanced Control

- Field installable co-processor
- Deterministic network
- Remote I/O
- Multi-Task programs



Software

- SyPT Pro
- Network and automation software in one package
- 61131-3 like programming language

Cubic Spline	Master (s)	Follower (Feet)	Interpol
17	1.700000	0.6837	5 Cubic
18	1.800000	0.7874	5 Cubic
19	1.900000	0.8968	5 Cubic
20	2.000000	1.0113	5 Cubic
21	2.100000	1.1298	5 Cubic
22	2.200000	1.2514	5 Cubic
23	2.300000	1.3752	5 Cubic
24	2.400000	1.5000	5 Cubic
25	2.500000	1.6248	5 Cubic
26	2.600000	1.7496	5 Cubic
27	2.700000	1.8702	5 Cubic
28	2.800000	1.9887	5 Cubic
29	2.900000	2.1032	5 Cubic
30	3.000000	2.2126	5 Cubic
31	3.100000	2.3163	5 Cubic

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