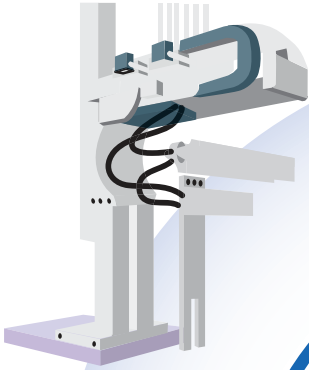


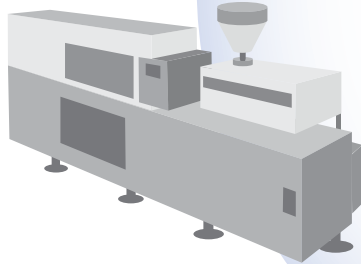
Food & Beverage



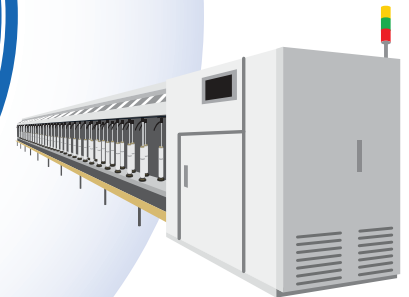
Machine Tool



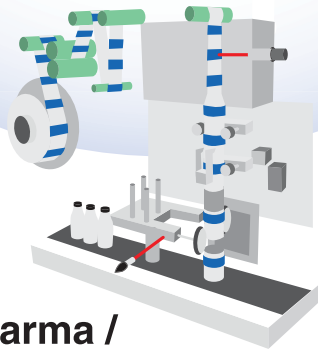
**Monitouch HMI
+
Motion Controllers
+
Alpha Series
Servo System**



Plastic



Textile



**Pharma /
Packaging**

Motion and Factory Automation

Fuji Motion Control System

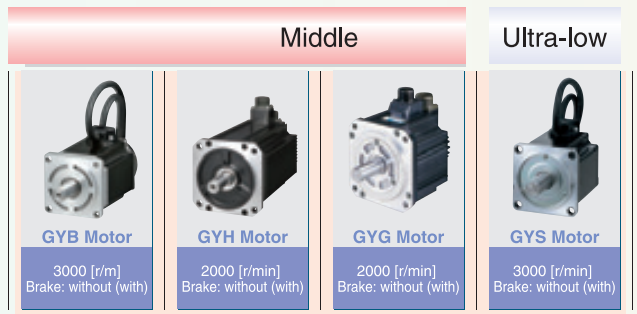
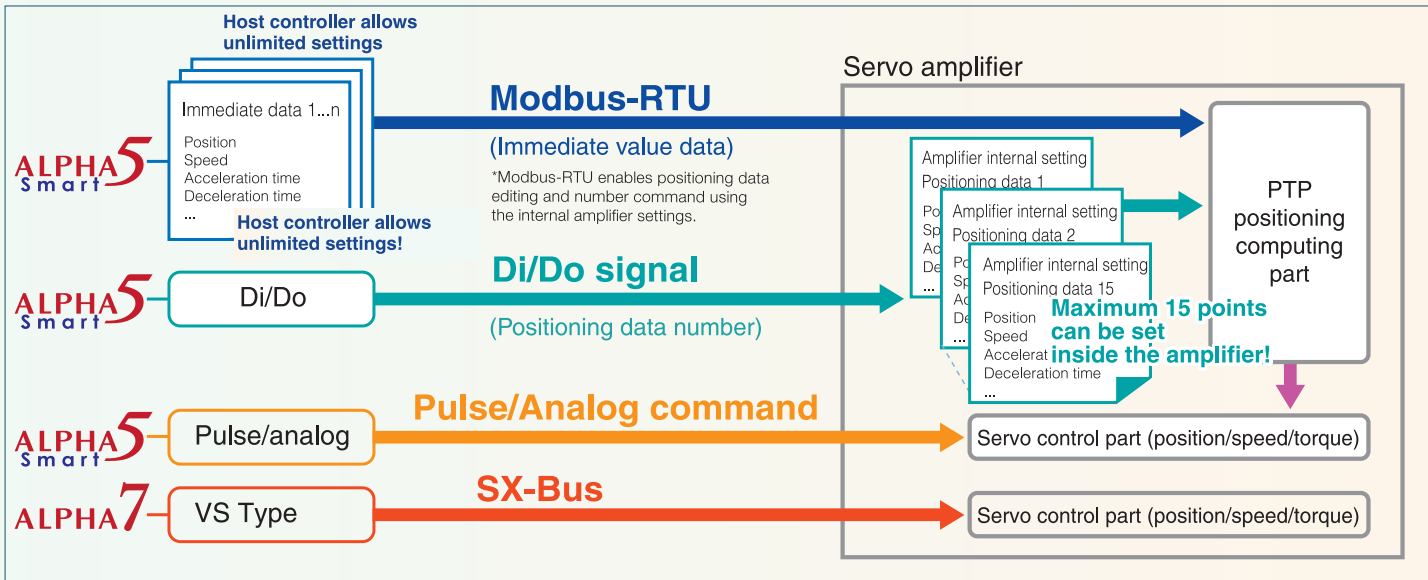
ALPHA7

- “Fast”: Speed frequency response 3.2 kHz
- “Strong”: instantaneous maximum torque 350%
- “Precisely”: Encoder Resolution 24bit (ABS/INC)
- “Safety”: STO standard equipment, function safety module (optional) also supports SSL, SLS, SBC, SSM
- DI/O - 6DI/2DO



ALPHA5 Smart

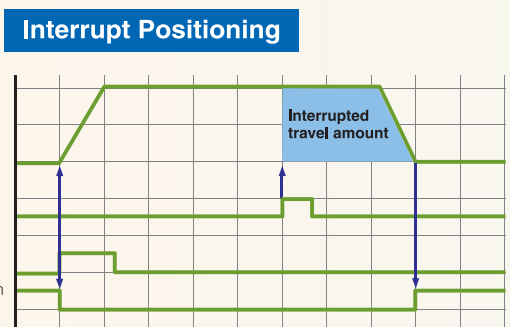
- Coast to stop and Rapid deceleration Stop
- 5/3 Sequence Digital I/O's
- 6 Tuning Methods:-
Trace Operation Mode
Shorter Cycle Time Operation Mode, Auto, Semi-Auto, Manual & Interpolation Mode



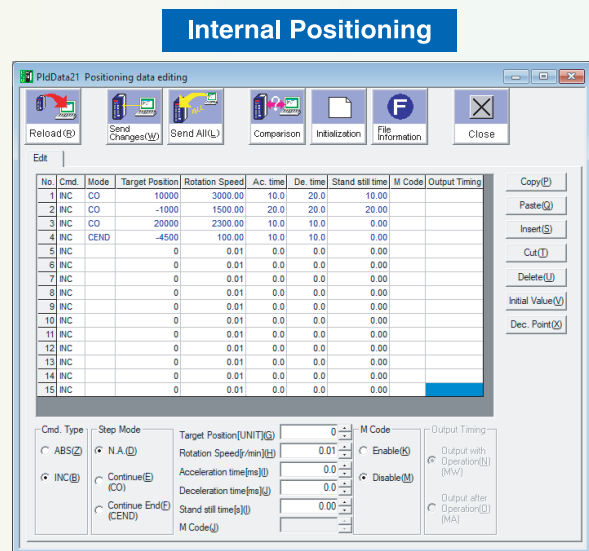
- Range : 50W to 7KW
- Advance Auto-tuning Function
- Optimum Tuning even Low-rigidity device
- Built-in Position Function for Simple Application
- High Resolution Encoder 18-Bit ABS/20-Bit INC
- Built-in Modbus Positioning computing system
- Advance filtering and gain parameters



Feature



- Better performance & accuracy
- Control Motion profile
- Fast Response
- Quick and easy settings



Fuji Motion Control System



FUJI SERVO SYSTEM ALPHA7

EtherCAT PTO SX Bus



Range

- 50W to 5 KW 200V 3ph

New functions and performance

- "Fast" : Speed frequency response 3.2 kHz
- "Strong" : instantaneous maximum torque 350%
- "Precisely" : Encoder Resolution 24 bit (ABS/INC)
- "Safety" : STO standard equipment, function safety module (optional) also supports SSL, SLS, SBC, SSM



Safety Modules



3.2 kHz

Speedy response realizes ultra-high-speed control

Speed and Frequency Response



350%

Power of three and half fold of the rating enables response to high-speed commands

Maximum Instantaneous Torque



24 bit (16777216 pulses)

Fine resolution encoder further raises the precision of control

High Precision Accuracy



STO

(Safe Torque Off)

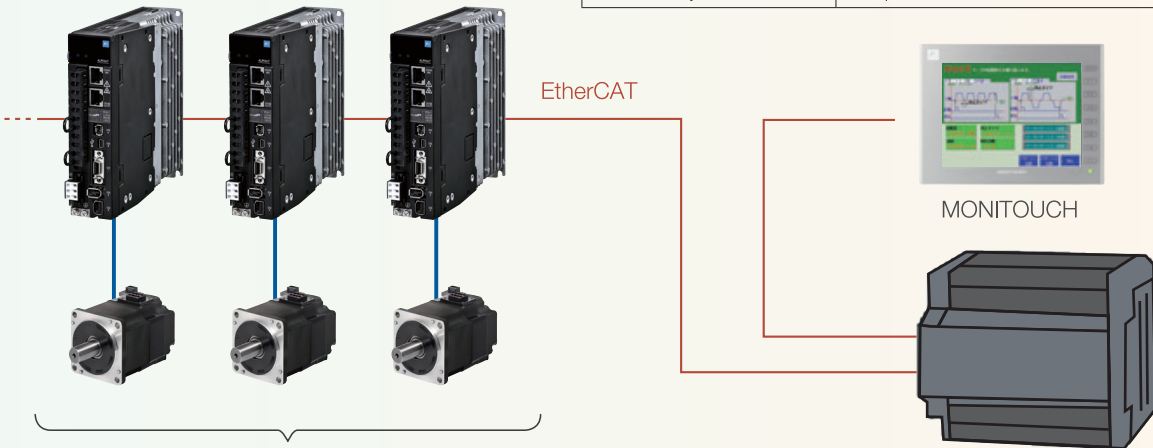
Standard Equipment

Open Network (with support for EtherCAT) VC Type

EtherCAT applications (with support for six different control modes and for synchronous (DC, SM2) and asynchronous (FreeRUN) modes)

| | |
|-------------------------|---|
| Device profile | CoE (Can application over EtherCAT) |
| Supported control modes | pp, pv, hm, csp, csv, cst |
| Synchronous mode | DC (synchronous), SM2 (synchronous), FreeRUN (asynchronous) |
| Minimum cycle time | 125µs |

ALPHA7



Maximum length up to 100m between nodes with a maximum of 65535 units connectable

With support for EtherCAT Controller

Introducing a New Motor type – Series 7 >

Lead wire Connection : Connector in-between Motor and amplifier.

Connector Connection Type : Director connection from Motor to amplifier



TECHNOSHOT TS1000 Smart Series

- 7" - W/o Ethernet and with Ethernet
- 10" with Ethernet
- Supports remote operation via VNC server
- CE/KC/UL/cUL compliant
- FROM capacity significantly expanded by 2.2 times* (26 MB)

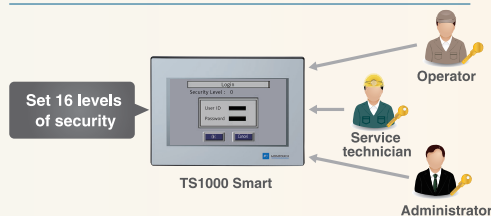


Multilanguage



Easily toggle between upto 16 languages. Support Windows fonts.

Security Features



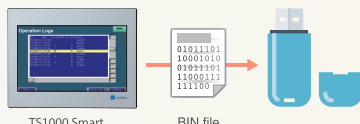
Restrict functions according to the user to configure a high-level Security environment

VNC Server



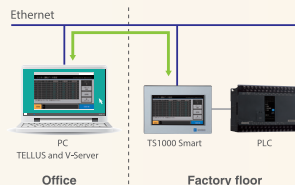
Easily remote access TS smart screens on the factory floor via PC over Ethernet

Operation Log



Record chronological on-screen input, from switch operations to numerical inputs. Data Recording of Machine like temp, speed etc.

Remote Maintenance



Use the TELLUS application software to easily monitor, operate TS smart screen & PLC information remotely at low cost



Programmable Operator Interface MONITOUCH V9 series

- 5.7" ~ 15" Size
- Built in wireless Compatible with Mobile and tablet
- VNC Compatible system
- Capacitive touch screen
- Advance Wireless Specification

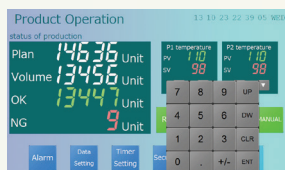
PDF Viewer Function

PDF files stored on SD cards can be displayed. PDF instruction manuals can be used for troubleshooting



Fast navigation to the desired page, using bookmarks

7-segment Fonts for Realistic Expression

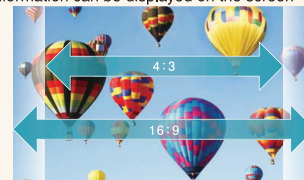


7-segment fonts allow for realistic, highly visible expression of measuring instruments. Non-illuminated segments can be shown in a subtle color.

Widescreen LCD

V9 Advanced

V9 Advanced models are equipped with a high-precision, high-resolution widescreen (16:9) Greater volume and variety of information can be displayed on the screen



Wireless Data Transfer

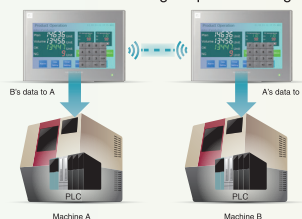
By Connecting a PC to a V9 via wireless LAN, transmission of screen program and the reading and writing of files through FTP server/client function becomes available. On-site debugging can be conducted easily, without the need for a cable connection.



*1 Wireless LAN-compatible products only.

Data Transfer via V9 Panels

With macro EREAD/EWRITE, data can be transferred between machines using V9 panels as a gateway



Video/RGB Input-Output Support

By attaching an optional unit, videos and RGB images can be displayed on the V9. Also, images displayed on the V9 can be sent external displays.

Supports 16.7 million colors



| Model | Item |
|--------|-----------------------------------|
| GUR-00 | Video 4ch input |
| GUR-01 | RGB 1ch input |
| GUR-02 | RGB 1ch output |
| GUR-04 | Video 1ch input |
| GUR-10 | Video 2ch input/ RGB 1ch input |
| GUR-11 | RGB 2ch input |

Fuji Integrated Controller Programmable Controllers

MICREX-SX Series



SPH Motion CPU

- Ultra High Speed Processing 9nSec
- IO Points :8192 Points
- IEC 61131-3 Conformed
- IL,ST, SFC, LD, FBD and SFC languages
- Built-in SD/CF Card Slot
- On Board USB and Ethernet Connectivity
- Up to 32 Axis Motion Control
- Built-in Motion Function Library

Fuji Integrated Controllers **MICREX-SX** Series

SPF Plus 4 Axis Pulse Motion Controller

- 4 ch - 500KHz Axis control - 5VDC Line driver I/O
- Type Input-Sink/source | Output - Sink type - 24VDC-20/8
- DIO / AIO / Comm Expandable with SPF Exp
- Actual Close Loop Feedback of axis
- Virtual Axis & External PG-500KHz
- Built-in Standard Motion FB Library | D300Win Expert Software



SPF-PLC

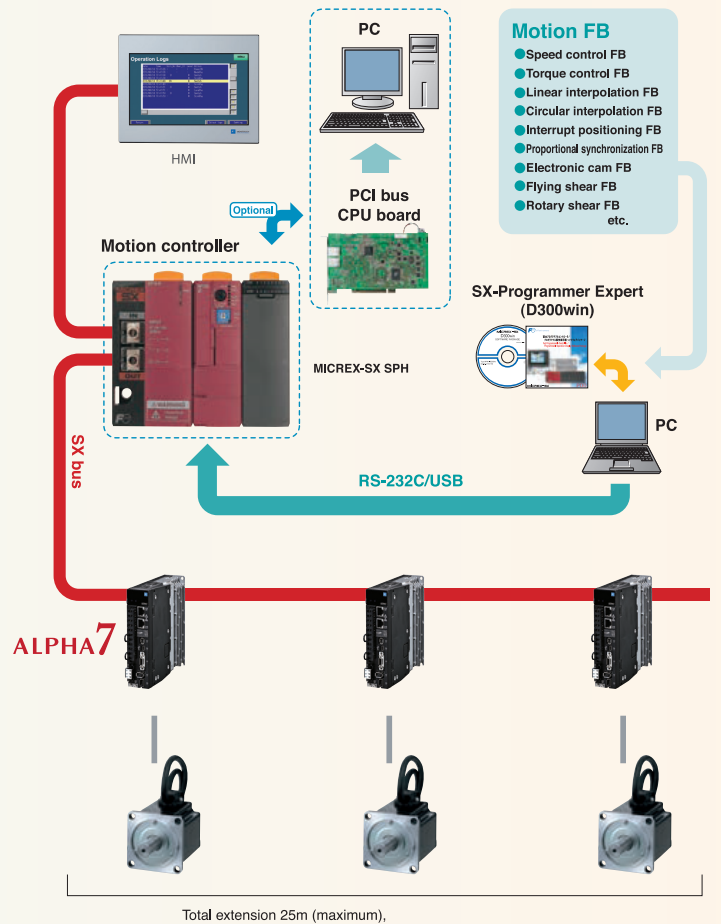
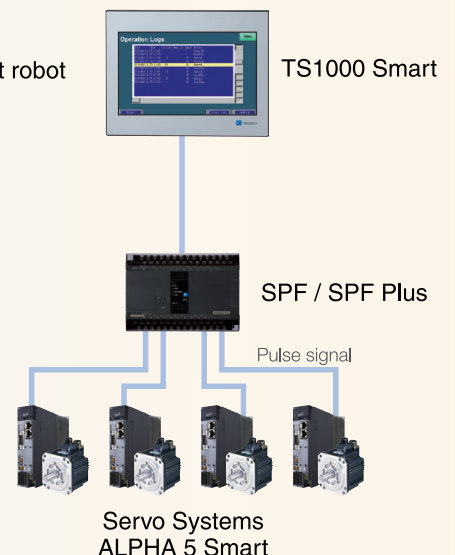
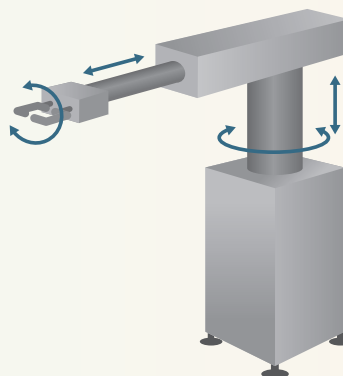


- Max I/O Capacity : DIDO 512 AIAO 64/64
- Power Supply : 1 ph 230V / 24VDC
- High performance with System on Chipset
- High Speed Counter : 200KHz - 4Ch
- 4 Axis High Speed Pulse Output for NC Position Control
- High Speed Interrupts Or Captured Inputs
- Multi Step Motion Programming, Calender Function

Positioning function

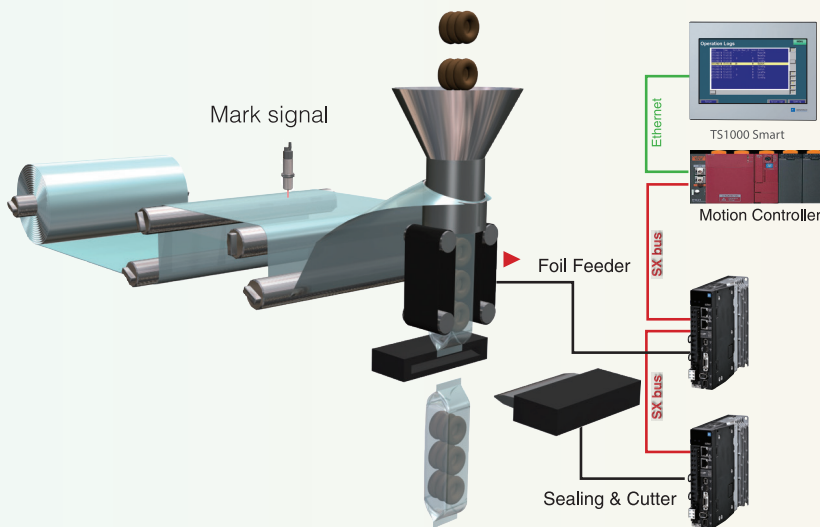
This function is compatible with a 200 kHz / 500 kHz, 4-axis pulse output. It can be utilized for increasingly sophisticated and high-accuracy positioning

Application example: Take-out robot



NEW

Vertical Form Fill Seal Machine



Operator Interface:

- Easy to operate
- Minimum down time by showing alarms and machine Operations
- Built-in Recipe

Motion Controller:

- Used for intermittent & Continuous Motion with Special Motion Function Blocks

Film Transporter Servo:

- Film transport belt pulls the film tube together
- Vertical Sealing bars seals the edge of film tube together
- High Mark sensor detection on SX servo

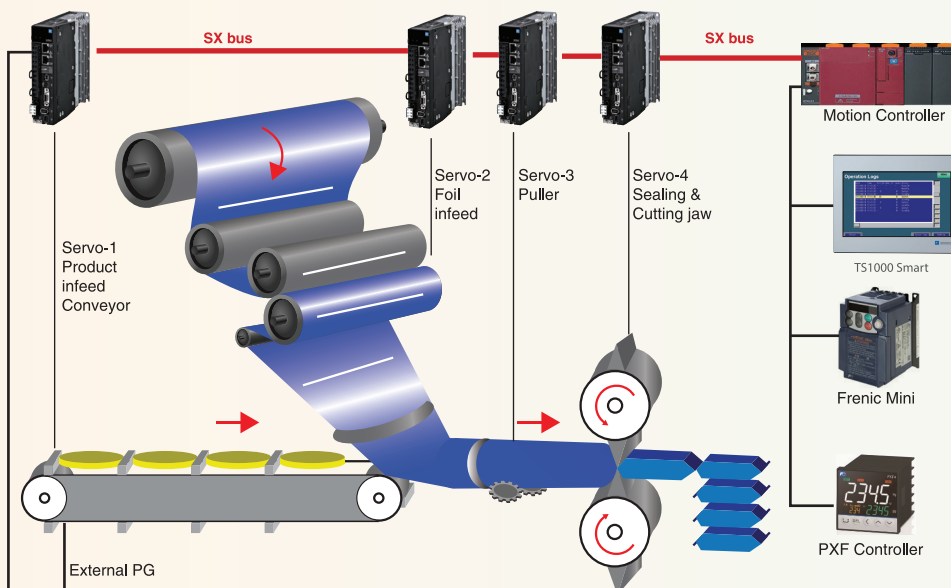
Cross Servo Sealer

- Seals Top and bottom Seal of pouch
- Servo Degree AM Operation for better sealing and low mechanical noise

Mark Position Sensing

Fuji electric's Offset range settings function help to set mark on seal Jaw edge without Adjusting Movement of physical mark sensor. This often reduces mechanical adjustment and downtime

Horizontal Form Fill Seal Machine



Infeed Servo Conveyor:

- Master Encoder in SX-Servo
- Precise Axis Motion detection

Foil infeed Servo:

- Synchronize Gearing Motion following of Master axis

Film Puller Servo:

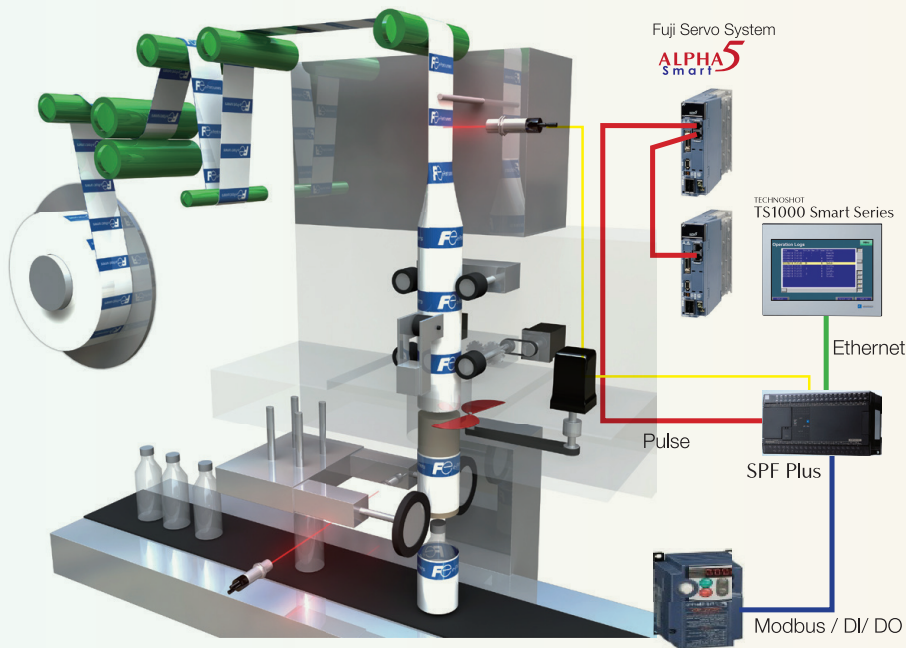
- Built-in Mark sensor detection to control web mark to mark adjustments

Sealing and Cutting Jaw :

- Sealing and cutting being done by servo & control by Motion PLC with E-CAM Functionality

- Sealer Synchronization with Product Mark and Line speed
- Motion Controller with E-CAM, Gearing, Rotary and intermittent Synchronization
- Film Feeder Speed CAM
- Trouble free Operation

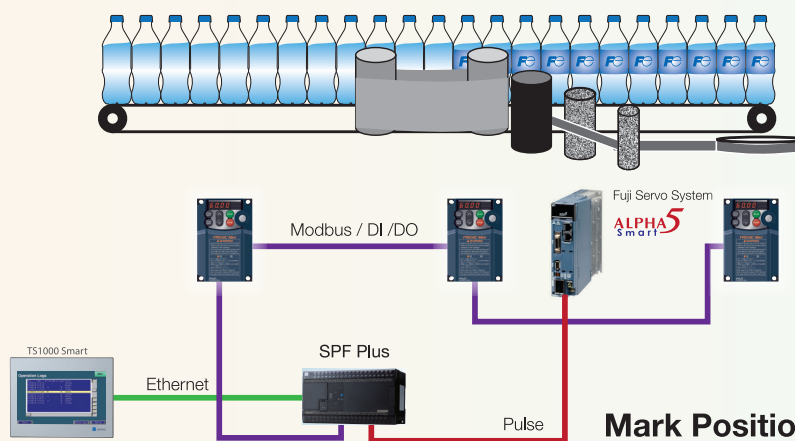
Sleeve Applicator



- Sleeve Label is pulled from the roll and stops on mark sensor using built-in mark detection servo feature
- Sleeve label is cut by servo cutter
- Sleeve axis synchronized product conveyer axis
- Motion controller detects High Speed Mark and CAM Functionality
- Motion controller: Pulse base motion controller with built in library of mark correction enables easy control and fine accuracy

Master axis following E-CAM Functionality | Precise Pulse Motion Control | Close Loop Operation

BOPP Labeling machine



Mark Position Shifting :

Easy Operation :

CAM Position setting for Gum injection for
Precise gum injection
Virtual axis control for seamless control

Mark Position :

Plastic film can be stretchable at speed where
mark control is challenge.
Built in Mark control FB can help to get
accurate Mark-to-Mark data and servo feed
correct length

Mark Position Shifting :

Phase adjustment is built in feature of controller,
which help to adjust labelcutting edge position
shifting w.r.t. cutter position without adjusting
Physical mark sensor

Data Recipe:

HMI has capability to store Production data
where based upon its operator select product
set parameter setup and start machine with nominal
start timing

Best Performance in combination with.

The New Micro Inverter

FVR-New Micro

- Range : 1ph 220V : 0.4KW to 2.2 KW
3ph 440V : 0.4KW to 2.2KW
- Output Hz – 400Hz
- With Built-in braking Transistor
- Non Linear V/F pattern Settings is possible.
- Built-in RS-485 Communication
- High Starting Torque of 200% for 0.5sec, 150% for 60S



Compact Inverter

FRENIC-Mini Series

- Range : 1ph 220V : 0.1KW to 2.2 KW
3ph 440V : 0.4KW to 15KW
- Overload 150% -1 Min, 200% - 0.5 Sec
- Built-in braking chopper
- Stable Operation at Low Speed
- Built-in RS-485 Communication



High Performance Inverter

FRENIC-Ace

- Range : 3ph 440VAC : 0.75KW to 315KW
- Over load : 150%- 1 Min | 200% - 0.5 Sec
- Dynamic Vector Control
- Customize Logic Built in 200 Steps
- Built in Communication : RS485 & CANOpen



Digital Temperature Controller

- 4 Loop Modular Controller
- Fuzzy Auto tune, PID Algorithm
- 64-Step Ramp-Soak Function
- All Communication Network Enabled
- 16-bit Resolution



Fuji Electric India Pvt. Ltd.

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