

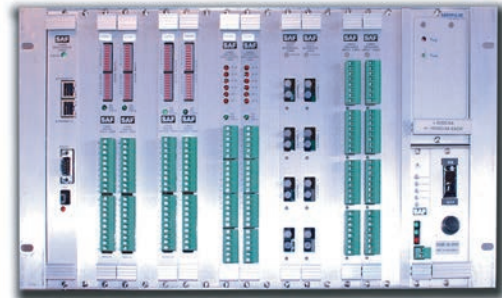
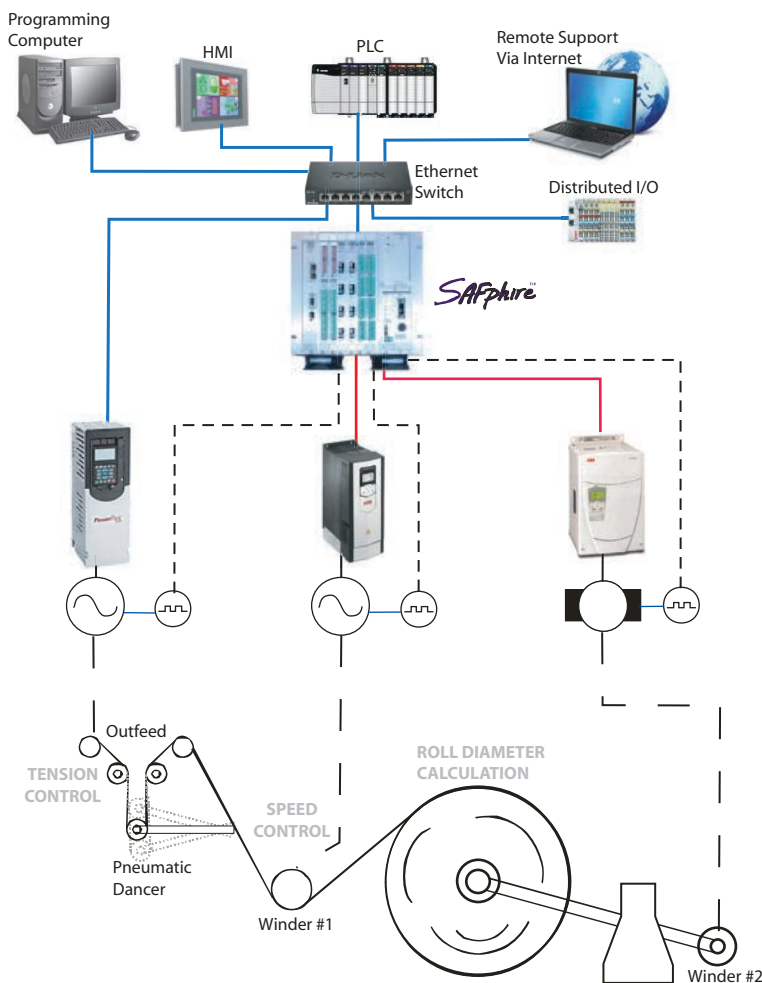
# SAFphire™ High Speed Programmable Controller

## SYSTEM OVERVIEW

SAFphire is a Programmable Linear Controller specifically developed and manufactured by SAF Drives as a tool to assist engineers implement control systems that involve complex drive coordination controlling linear variables. SAFphire is an ideal answer for system's involving:

- Multiple drive co-ordination
- Precise control of linear variables such as:
  - tension - position - torque - speed
- Mathematical modeling
- Ethernet communications to industrial networks with PLC's, HMI's, Distributed I/O or other networked devices

## Flexible Configuration



## SBL - SAF BLOCK LANGUAGE

The SAF Block Language (SBL) is the Windows™ based graphical programming language for SAFphire. The SBL Editor allows the control designer to link the software blocks together to form a "Control Block Program". The software blocks are selected from a library of more than one hundred pre-defined blocks. Real time scope and chart recorder features provide graphical visualization of any system parameter.

## SOFTWARE BLOCKS

SAFphire has over 120 pre-written, pre-tested software blocks to build from such as:

- Self Tuning Speed Loop
- PI Loop
- Look Up Table
- Diameter Calculator
- Inertia Compensation
- Trajectory Planner
- Various Analog Function
- Various Logic Functions
- Remote support for program changes and troubleshooting

## SAFPHIRE CARDS

- \*CA401 Digital Input Card
- \*CA402 Digital Output Card
- \*CA403 Multiple Input/Output Card
- \*CA404 Analog Output Card
- \*CA415 Analog Isolation Card
- \*CA416 Digital Position Input Card
- \*CA453 Encoder Card
- \*CA454 DDCS Interface Card
- \*CA460 Processor Card