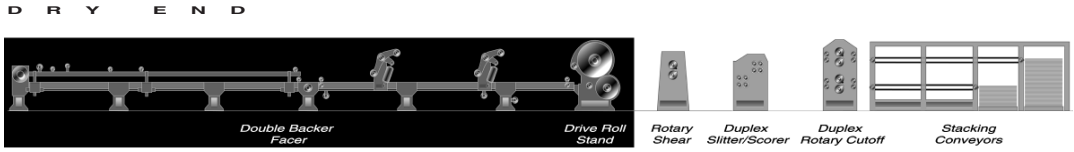
DOUBLE FACER

Smart Double Facer/Backer Drive



UNICO

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Smart Double Facer/Backer Drive

Overview

Unico's Smart Velocity Drive is a digital signal processor (DSP) based variable-speed drive with an embedded software block to control a double facer/backer. The program offers a number of programmable features that enable OEMs, integrators, and users to customize the functionality of the software to the application.

Features

Modes of Operation

The software has manual and automatic/run modes of operation. In manual mode, the drive can be jogged in both directions. In automatic/run mode, velocity cruise control is enabled and two parallel inputs are used to increase or decrease motor velocity. A third input is used to command the drive to return to a previous speed.

Flexibility and Ease of Use

The software allows the user to easily adjust the velocity and acceleration rates as well as to set up and tune the drive. Fault messages and warning indications are provided for the machine operator. An alphanumeric display shows current drive speed, drive state, and drive status. Analog outputs are available to provide other drives or controls with proportional references of drive speed and/or torque. The drive supports UEdit®, Unico's Windows-based IEC 1131 standard ladder-logic and function-block programming package that provides even greater customization and flexibility. The drive is ideal for retrofits, and seamlessly interfaces into existing logic and with other logic controllers.

Smart AC Digital Drives

Unico's 1000 and 2000 drive families provide powerful, flexible digital flux vector control for sophisticated, performance-oriented applications. The drives have been designed for complete flexibility and offer a variety of feedback, programmable I/O, and communication options. They incorporate a number of energy-conserving features, including line regenerative capabilities for exporting energy back to the power grid. Both drive families can take advantage of a modular DC bus configuration for sharing or recirculating energy among multiple drives.

Communication Protocols

The drive supports a variety of serial communication protocols for connecting to virtually any PLC or HMI. The drive can also operate in a stand-alone mode using the built-in keypad/display with an ANSI protocol connection to a simple serial display unit.

- CANopen
- CC-Link
- ControlNet
- DeviceNet
- Ethernet
- Interbus
- Modbus Plus
- Modbus RTU
- Profibus
- Remote I/O†
- RS-232/422/485

†Supported only by the 2000 family platform

Dual Motor/Drive Option

A dual motor and drive option eliminates the web distortion caused by the upper and lower belts traveling at different surface speeds. Electronic line shafting (ELS) capability within the drives allows gear ratios to be adjusted through software to match surface speeds.

Inputs & Outputs

All inputs and outputs are user-enabled and are mapped to hardware I/O points to allow customization of the control. They are also accessible through a high-speed serial communication link.

Inputs
- motor on request
- fault reset
- motion enable
- automatic/run mode
- jog forward
- jog reverse
- increase speed/accel
- decrease speed/decel
- resume speed
- velocity select 0
- velocity select 1
- velocity select 2
- velocity select 3
- tracking start
- blower motor OK

Outputs
- motor on grant
- no fault
- forward motion
- reverse motion
- automatic
- manual
- at zero velocity
- at requested velocity
- at max velocity
- no warning
- motor RMS warning
- thermal warning
- tracking preset

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