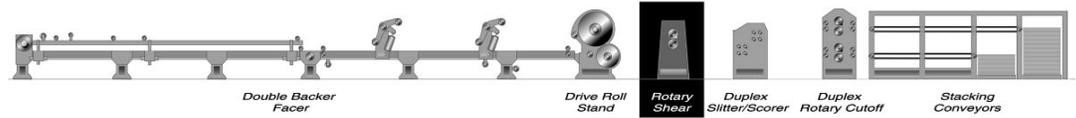


D R Y E N D



Overview

Unico's Smart Web AOC Shear Drive can be used as a stand-alone drive or as part of a multidrive rotary web-severance system on a corrugator's dry-end used during automatic-order-change sequence (AOC) or scrap chop-out requirements. The drive uses the same drive-control algorithm as used on the Unico rotary cutoff knife drives and is therefore superior to other drive packages that are typically used.

Hardware

The drive system consists of a Unico 2400 Series flux vector AC drive and a properly sized AC induction motor. A parallel interface module with 32 points of optically isolated, configurable I/O is supplied with the system. Optional communication interface modules can be supplied that support high-speed communication protocols. The same functionality and performance can be offered with the 1100 Series drive platform with some limitations on hardware-mapped I/O and high-speed serial communications.

Software

The software provided in the drive is Unico's standard embedded RCO software with additional, pre-engineered UEdit[®] shear functionality. The shear portion of the program can be modified using standard IEC 1131 ladder diagrams and function blocks to further customize the drive for a particular installation.

Interfaces

Setup and maintenance is done through the same keypad/display as used for drive parameter access. Storage, retrieval, and adjustment of setups can also be done remotely through ControlNet, Remote I/O, Modbus Plus, Ethernet, or Profibus protocols and the appropriate interface module or with a remote-mounted HMI.

Features **Chop-Out After Line Stop**

The system provides a means by which the shear will automatically chop out a preset length of material after the line has stopped for a selectable time period.

Chop-Out Wet-End Scrap

The shear will track scrap material when initiated by a push button or other wet-end signal and chop it out when it reaches the shear.

Automatic Reference/Homing

Upon power-up, the shear will automatically go to a home position. The system readies itself for the first chop-out without operator intervention.

Scrap Jam Prevention

Once a chop-out has been completed, the shear drive will not allow another until enough material has passed into the dry end. This eliminates jam-ups caused by short lengths of material getting stuck between the web shear and the cut-off knife.

SHEAR**Smart Web
AOC Shear
Drive**

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

- shear enable
- single cut
- continuous cut
- wet-end scrap track
- blower thermal OK
- motor thermal OK

Outputs

- shear enabled
- shear ready
- cutting
- scrap flap open

UNICO-Worldwide

Corporate Headquarters

Unico, Inc.
3725 Nicholson Road
P. O. Box 0505
Franksville, Wisconsin
53126-0505
USA

voice: 262.886.5678
fax: 262.504.7396

www.unicous.com

United States

Novi, Michigan
248.380.7610
New Lenox, Illinois
815.485.5775
Sandy, Utah
801.501.7586

Canada

Mississauga,
Ontario
905.602.4677

South America

El Tigre, Venezuela
58.83.414.024

Europe

Milton Keynes,
England
44.1.908.260000
Siegen, Germany
49.271.5015.0

Asia

Osaka, Japan
81.66.945.0077
Beijing, China
86.106.218.6365



All trade designations are provided without reference to the rights of their respective owners.

Specifications subject to change without notice.