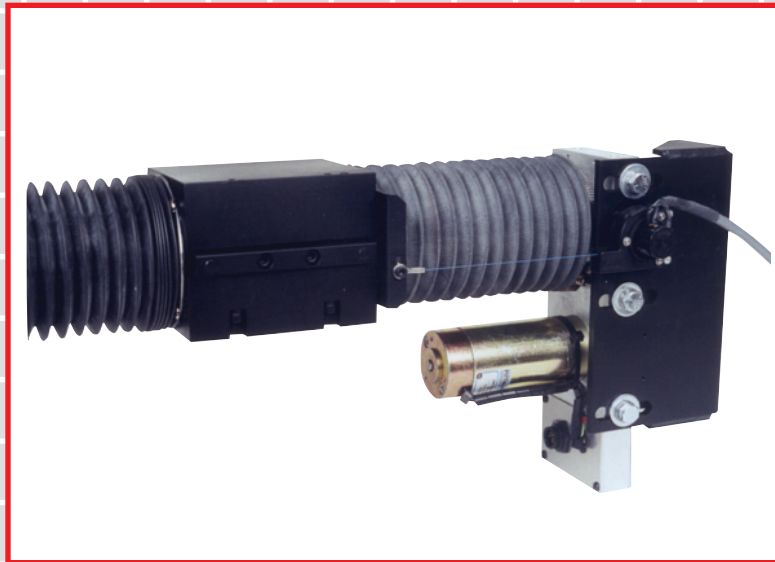


Knife Trimming Positioning System



System Description

The dynamic positioning system can be used to continuously edge guide customer trimming devices to each edge of the web. The system consists of two independent microprocessor- based control systems and PWM (pulse width modulated) type drives.

The two control systems drive independent ball screws that position carrier blocks on a common machined tube that is chrome plated and precision ground. The length of the tube assembly is custom engineered to fit each calender. Adjustable mounting feet at each end of the tube allows easy installation of the assembly within the customer machine, calender, etc.

A micro-slide assembly that includes a 30 rpm motorized drive and linear transducer is mounted to each carrier block to provide the operator remote offset positioning for the detector's guide point relative to the trimming position. The feature is especially helpful for operators of calender trains equipped with tandem three roll calenders. Two intelligent digital meters display the offset dimensions (inches or millimeters) of the detector guide point relative to the trimming position for each web edge. The control station also includes the ("in-out") pushbuttons for the offset control.

Standard mechanical features include a removable one inch thick mounting plate on each carrier block for convenient mounting of trimming devices.

Standard Mechanical Features

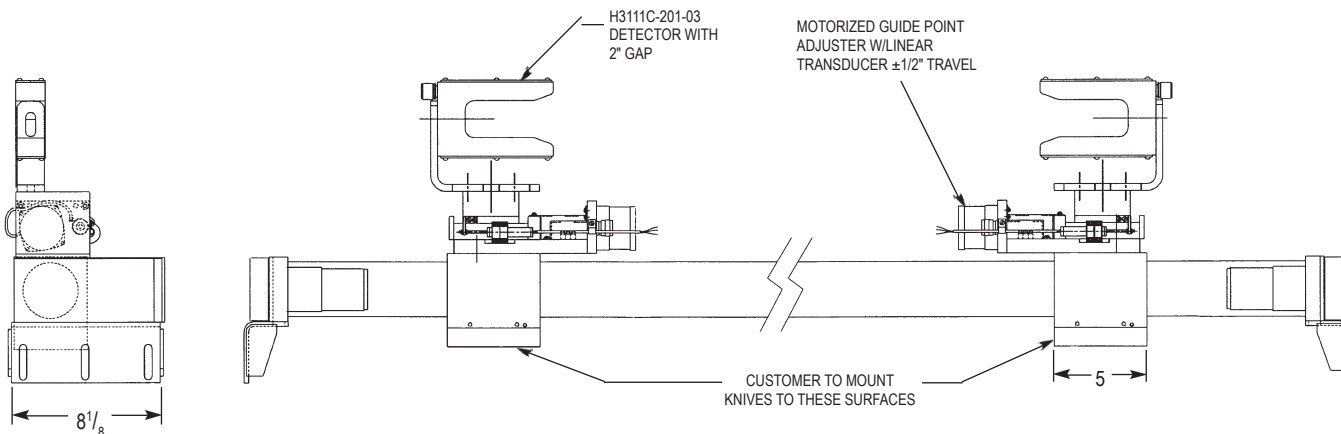
- Removable one inch thick aluminum mounting plate on each carrier block.
- Edge detector mounting to micro-slide assembly.

Optional Mechanical Features

- Custom mounting plates for carrier blocks.
- Custom detector mountings.

DIMENSIONS

inches
(Ref. Dwg. HB08-1975)



DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

SPECIFICATIONS

H6416 Controller

Power output: 50 watts continuous
Power requirements: 102-132 V ac or 204-264 V ac (switch selectable).
50-60 Hz at 100 VA maximum.
Operating temperature range: 32-122 F (0-50 C)
Display: High contrast LCD
Keyboard: tactile feedback membrane
Frequency response: -3 dB at 20 Hz
Protected against motor short circuits
Protected from over-temperature conditions
Weight: 6.6 lb

H3111C Discriminating Edge Detector

Power requirements: +10 to 15 V dc at 40 milliamps
Pulse frequency: 4 to 6 kHz
Ambient light rejection: Greater than 48 dB at 120 Hz
Greater than 50 dB at 60 Hz
Output range: 0-2.5 V dc from no light to full light
Output impedance: 1000 ohms or less

H5550-12/12 Motorized Positioner

Manual speed: Adjustable through H6400 Amplifier
Electrical connections: Prewired, plug-in cable to motor drive. Standard
15 foot length.
Power: Supplied by H6416 Controller
Operating temperature range: 32-122 F (0-50 C)

Digital Meter

Display: 6 digit, 0.56" (14.2 mm) high LED
Power requirements: ac power 115 V ac, ±10% 50/60 Hz
14 VA.
230 V ac, ±10% 50/60 Hz, 14 VA.
Temperature operating range: 0 to 50 C

Linear Transducer

Resistance (±20%): 1500 ohm/inch of travel
Independent linearity: ±1.0% (5% to 95% travel)
Resolution: essentially infinite
Operating temperature: -40 C to +80 C

Fives North American Combustion, Inc. Guiding Systems

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