



ADDEX

HIGH-PERFORMANCE AUTOMATIC PROFILE CONTROL

EGC External Gauge Control



ADDEX INC.

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NOW WITH
Intensive
Cooling
TECHNOLOGY

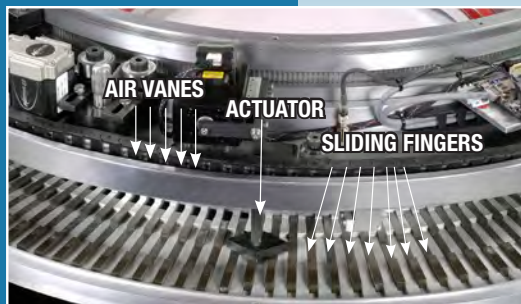
ADVANCING STATE-OF-THE-ART COOLING TECHNOLOGY

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HIGH-PERFORMANCE/AUTOMATIC PROFILE CONTROL

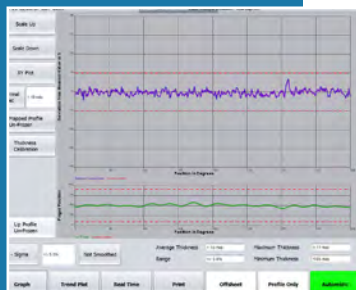
EGC External Gauge Control

PATENT: www.addexinc.com/patents



THE AIR RING

Equipped with horizontally sliding teeth that adjust the air flow through the radially located channels in the air ring's plenum, in response to mapped thickness profiles. Preferential cooling on the outside of the bubble delivers a uniform thickness profile. The Addex EGC air ring controls 100% of the airflow to the process and maximum control capability for gauge variation.



THE MAPPER

Processes the raw profile input from the thickness measuring system and combines it with signals from the reversing haul-off position and nip roll speed to achieve 1° film profile mapping—the best in the industry—to match our high-resolution air ring.

THE GRAPHICAL USER INTERFACE

A wall-mounted control panel with 17" touchscreen monitor. Allows gauge profiles and control profiles to be displayed together with trending and profile statistical analysis. Super easy to install—only requires power and Ethernet connection between air ring, mapper and UI.

**WE MEASURE
BETTER,
WE CONTROL
BETTER**

AVAILABLE SENSOR OPTIONS

AROUND THE BUBBLE

Located on a scanning live ring between the highest frostline and the collapsers, rotating around the bubble.

- CAPACITIVE (LIGHT CONTACT)
- AIR-CUSHIONED CAPACITIVE (NON-CONTACT)
- AIR-CUSHIONED NUCLEAR (NON-CONTACT)

AFTER THE PRIMARY NIP ROLL

Oscillating haul-off required.

- CAPACITIVE LAYFLAT (NON-CONTACT)
- IR SCANNER (NON-CONTACT)
- NUCLEAR SCANNER (NON-CONTACT)

INTENSIVE COOLING AIR REQUIREMENTS

US

$$(D'' + 2) \times 200 = \text{CFM}$$

@ 80°F & 25"H₂O

METRIC

$$(D \text{ mm} + 50) \times 13.3 = \text{m}^3/\text{h}$$

@ 27°C & 6.2 kPa

LEGEND

D'' = Die diameter in inches
CFM = Cubic feet per minute
F = Degrees Fahrenheit
H₂O = Inches water pressure unit

D mm = Die diameter in mm
m³/h = Cubic meters per hour
C = Degrees Celsius
kPa = Kilopascal pressure unit

SPECS

SIZE		Number of Air Inlets x Ø	Number of EGC Control Zones
6"–8" 100–200 mm	48" 1220 mm	6 x 4"/102 mm	90–114
8"–16" 200–400 mm	56" 1423 mm	6 x 4"/102 mm	120–168
16"–24" 400–600 mm	64" 1626 mm	8 x 4"/102 mm	168–216
24"–36" 600–900 mm	76" 1931 mm	10 x 4"/102 mm	224–288
Larger sizes are available upon request			

Note: For Intensive Cooling specs, see the Addex Intensive Cooling Air Rings Data Sheet.

FEATURES

- Available with Intensive Cooling technology to boost output by 10–15% & improve stability.
- The film's thickness variation is corrected by the automatic adjustment of the air flow through the air ring's channels.
- The overall air flow and thus the air ring's optimum cooling capacity is preserved regardless of the adjustments.
- Very high resolution of the control is assured by a multitude of control zones that can be moved to any "in" or "out" position within each channel.
- Ethernet and single power source connection.

HOW DO WE DO IT?

A single actuator serves all zones,
SIMPLIFIES the system and
MAXIMIZES the resolution



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NOTE: Precision blower & die profile information required at time of order.