



ADDEX

EGC External Gauge Control



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EGC External Gauge Control

US Patents 5,676,893 and 5,468,134

THE AIR RING

The air ring is equipped with horizontally sliding teeth that adjust the air flow through the radially located vanes in the air ring's plenum causing preferential cooling on the outside of the bubble. A circuit board inside the air ring converts the mapped thickness profile into instructions for the scanning actuator which slides "in" or "out" a mul-



titude of fingers (132-244 depending on air ring size), as needed, to open or close the airflow channels (vanes).

THE MAPPER

Processes the raw signal profile and the reversing or fully-rotating nip position and nip roll speed.

SENSOR LOCATION OPTIONS

THE LIVE RING (Carousel)

Located between the highest frostline and the collapsers.



SCANNER

Located after the primary nip.

ALF (AllLayFlat)

Located in the middle of the collapsing frame.



THICKNESS SENSOR OPTIONS

CAPACITIVE (standard)

AIR CUSHIONED NUCLEAR (Gamma Back-scatter)

AIR CUSHIONED CAPACITIVE

IR (infrared) identifies barrier layer thicknesses

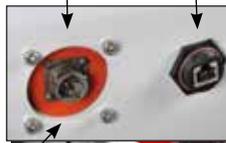
FLOOR-MOUNTED CONSOLE

Graphical User Interface displays:

- control and air profiles
- trending and profile statistical analysis.



Single Power source Ethernet Connection



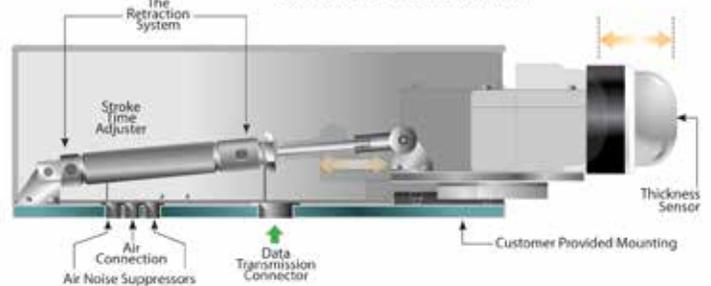
CIRCUIT BOARD



AIR VANES

SLIDING FINGERS

ALF (All LayFlat) Thickness Sensor Assembly



FEATURES

- The film's thickness variation is corrected by the automatic adjustment of the air flow through the air ring's vanes.
- The overall air flow and thus the air ring's optimum cooling capacity is preserved regardless of the adjustments.
- The Very High Resolution of the control is assured by the multitude of control zones that can be moved to any "in" or "out" position within each vane.
- Ethernet and single power source connection.

SPECS

SIZE		Number of Air Inlets x Ø	Number of Control Zones
4"– 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 ones are available upon request

AIR REQUIREMENTS

US

METRIC

D" x 150 = CFM D mm x 10 = m³/h
@ 80°F & 25"H₂O @ 27°C & 6.2 KPa

LEGEND: D" = Die diameter in inches
D mm = Die diameter in mm
CFM = Cubic feet per minute
F = Degrees Fahrenheit
C = Degrees Celsius



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