

Automatically controlled air ring SmartLip DL for blown film lines

Higher output ...

SmartLip DL is a high performance air ring with dual-lip design offering a considerable increase in extruder output as well as vastly improved thickness tolerances. Two goals are achieved: An increase in profitability and an improvement in the quality of film produced.

... better gauge tolerances ...

SmartLip DL is an automatically controlled air ring equipped with adjustment units for redistribution of the cooling air around the die. This allows thick spots to be corrected with less cooling air and thin spots with more cooling air respectively thereby improving thickness tolerances considerably.

... for blown film lines.

The SmartLip DL air ring is suitable for new lines as well as for retrofitting older lines. Specially adapted for a particular die it may easily be exchanged for the original air ring.



Quality

- Reduced gauge tolerances by 50 - 70 % of usual values
- Improved film properties for the downstream confection
- Even geometry of finished reels
- Improved production plan
- Reduced customer complaints

Advantages

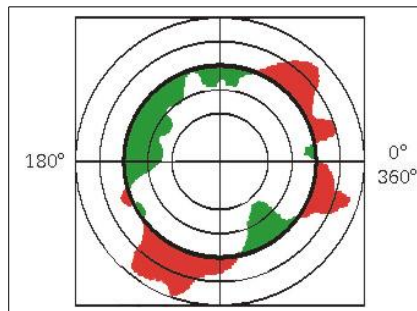
- Increase in extruder output
- Savings on raw materials by down-gauging of nominal thickness
- Considerably less stoppages with downstream confection
- Reduced waste during start-up
- Faster return on investment

Automation

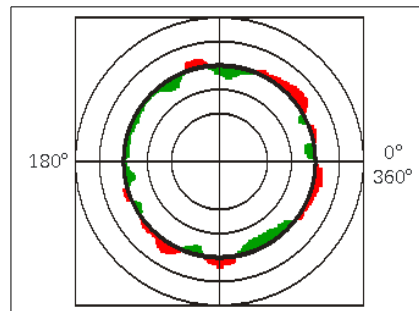
- Safer production process
- Post-centring of die unnecessary
- Automatic correction of gauge profile during production process
- Simple to extend with other Octagon control systems

Octagon Control Modules: Technically proven, efficient, easily extendable

What may be achieved?



Outgoing profile without control 10 %



Automatically controlled profile 3,6 %

Special features

- Extruder output increased considerably
- Excellent melt properties in interim lip range
- Adapters available for different die diameters
- Optional remote fault diagnostics
- Simple to operate
- Innovative in function and design



Function description

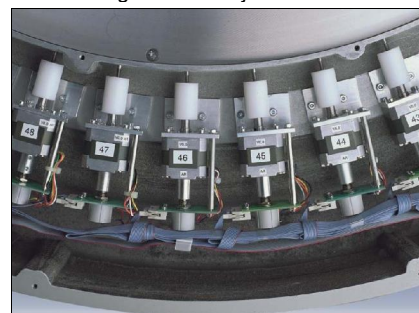
Adjustment units allow the cooling air to be redistributed around the die diameter as required thereby correcting thin and thick spot of the profile.
A control step takes place each time a complete profile has been measured.



Arrangement of adjustment units

Sophisticated design

Control of the adjustment units is via stepper motors which are resistant to temperature. A totally protected design prevents any contamination of mechanical elements. Maintenance of the drive assembly is therefore reduced to a minimum.



Installation of stepper motors

Line specific features

The SmartLip DL air ring is suitable for almost any type of blown film extrusion line.

Air ring models

Defined by die diameter the following models are available:

Model	Ø mm die	adj. units
DL 350	80 - 350	32
DL 500	150 - 500	48
DL 700	250 - 700	48

Oversize models available upon inquiry.

Octagon
Process Technology GmbH
Nuernberger Straße 119
D-97076 Wuerzburg

Telefon +49 931 27 96 70
Telefax +49 931 27 47 19

contact@octagon-gmbh.de
www.octagon-gmbh.de