

# Automatically controlled air ring SmartLip SL for blown film lines

## Solutions ...

For the production of technical films, the following factors are predominant:

- optimal thickness profile
- minimal thickness tolerances

For this, the automatically controlled air ring SmartLip SL offers an ideal solution.

## ... for better gauge tolerances ...

SmartLip SL is a controlled single-lip 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.

## ... on blown film lines.

The SmartLip SL 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.

The SmartLip SL air ring is above all suitable for LDPE and LLDPE.



### Quality

- Reduced gauge tolerances
- Improved film properties for the downstream confection
- Even geometry of finished reels
- Improved production plan
- Reduced customer complaints

### Advantages

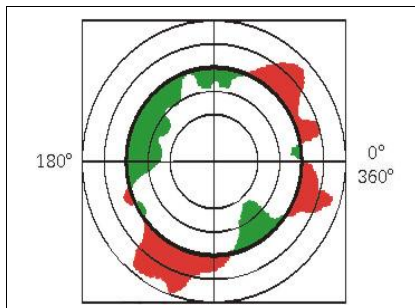
- Savings on raw materials by down-gauging of nominal thickness
- Considerably less stoppages with downstream confection
- Reduced waste during start-up
- Fast return on investment

### Automation

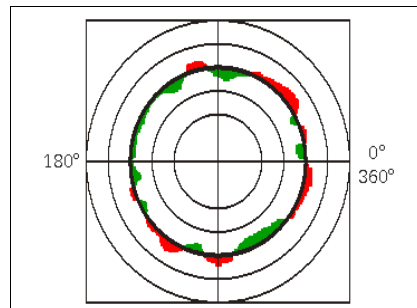
- Safer production process
- Post-centring of die unnecessary
- Automatic correction of gauge profile during production process
- Simple to extend with other Octagon control systems

# Octagon Control Modules: Technically proven, efficient, easily extendable

**Vastly reduced thickness tolerances!**



Outgoing profile without control 10 %



Automatically controlled profile 3,6 %

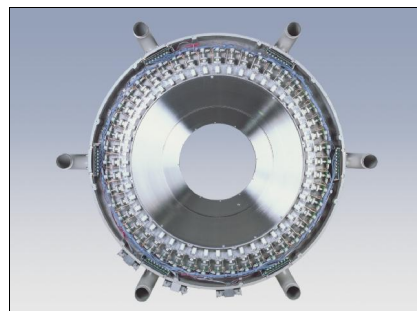
## Special features

- Adapters available for different die diameters
- Optional remote fault diagnostics
- Suitable for wide range of blow-up ratios
- Simple to operate
- Innovative in function and design



## Functioning

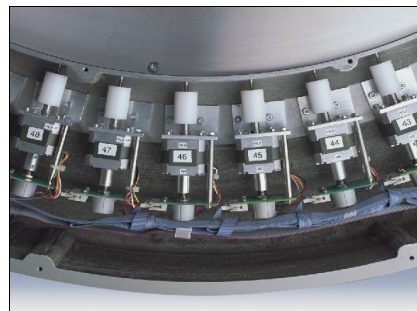
Adjustment units allow the cooling air to be redistributed around the die diameter as required thereby correcting thin and thick spot of the profile.  
A control step takes place each time a complete profile has been measured.



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 SL 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
SL 350	100 - 350	32
SL 600	250 - 600	48

Oversize models available upon inquiry.

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