

FUTURE DESIGN INC.



THE HOME OF SATURN AIR RING TECHNOLOGY™

BLOWN FILM EXTRUSION SYSTEM EQUIPMENT AND COMPONENTS

Future Design Inc.

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Saturn **PERFECT BALANCE** Air Ring System

Saturn Air Ring Technology™ the air rings that began a revolution in 1978, introduces the future generation of air rings for blown film. With a history of superior design, the performance-proven Saturn air ring will meet and match the exact characteristics of any polymer. This system delivers **segmented airflow to calculated circumferential areas**. This effective thickness improvement system will offer simplicity to state-of-the-art visualization by giving the highest operational reliability. The Perfect Balance air ring allows manual manipulation to increase any low areas to improve yield of a high quality film. The **Saturn Perfect Balance system can be upgraded to existing** air rings.

FEATURES

Benefits

- Improve width control
- Improve bubble stability
- Improve frost line height control
- Achieve faster running speeds
- Improve roll geometry
- Improve thickness variations
- Quality running of low-melt strength materials
- Ease of operation
- Improve running of unique polymer blends, off-spec or wide-spec materials and reprocessed resins



Design

- Completely manufactured from aircraft-grade cast aluminum components.
- The advanced dual lip design maintains the control that is necessary to produce improved roll geometry, thickness control and bubble stability. This design will maximize the cooling rate and utilize maximum blower efficiency with proven gauge deviation reduction.
- The extended height geometry of the Bubble Cone controls bubble stability and maximizes airflow control. The Adjustable Chimney also allows customized control of the airflow through the gate.
- Profiling system based on circumferential segments installed as an integral part of the air ring.
- Airflow to the segments is integrated from the main chamber supply.
- Individual gates manually control the airflow volume and velocity to each segment (no additional blowers required.)

Application

- We have redesigned the lipset of the Saturn air ring to accommodate the demands of new polymers and combinations, faster running speeds and tighter film tolerances. Suitable for running low melt-strength materials at higher blow-up ratios. The **Perfect Balance Manual** air ring can be upgraded to an **Automatic** air ring in the future.

For more information regarding the **Saturn Perfect Balance** air ring, contact our sales staff.



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