

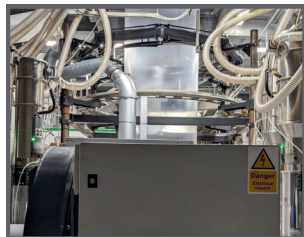
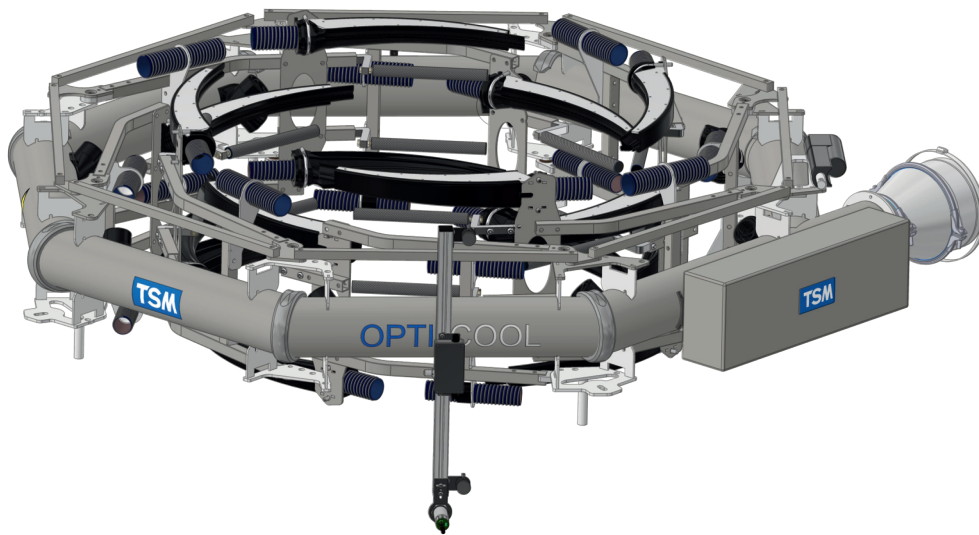
Solutions Through Partnership

OPTICOOL

Secondary Cooling Ring

High-Efficiency Secondary Cooling
for Blown Film Extrusion

TSM



Benefits

- Reduce the effects of blocking
- Increase output by up to 50%
- Improve film flatness - improve roll geometry
- Reduce/eliminate Antiblock - enhance film clarity
- Improve product consistency

User Interface

- 7" touchscreen with intuitive operator functionality
- Film temperature alarm
- Built-in bubble temperature trending
- Ambient temperature sensor
- Export data to USB
- Chiller control
- Bubble detection with automatic shutdown
- OEM Interfaces

Options

- 10" touchscreen
- Dual screens
- Heat exchanger

OptiCool is an innovative system designed to increase productivity of the blown film process by adding additional cooling above the frost line. Reducing such effects as Blocking where the inside surface of the bubble sticking to itself at the nip during collapsing making it nearly impossible to open and reduced tackiness of the bubble outer surface seen when still hot.

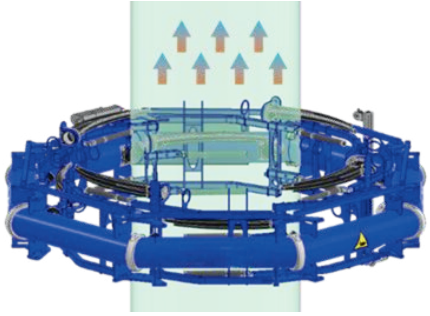
OptiCool systems are typically mounted above the bubble cage and prior to the collapsing assembly. The system generates a curtain of tangential cooling air that flows both in the upward and downward direction onto the film surface. (DDF System)



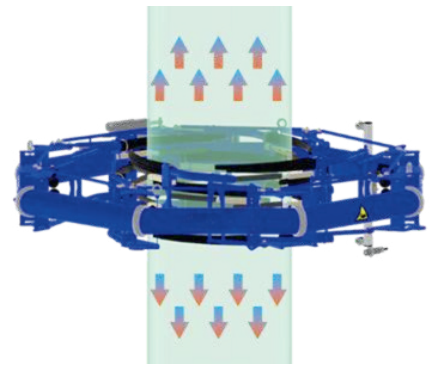
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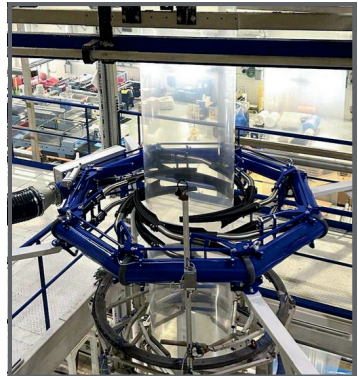
	SDF	DDF
Configuration	Single Directional Flow	Dual Directional Flow
Performance – Delta T	Up to 15 °C	Up to 30 °C
Blade Arrangement	8	16 150mm
Body style + Dia	130mm Ø SS	Ø SS
Applications	Blocking Reduction Measurable Output increase	Blocking Reduction Additional Output increase Nip + Collapser Cooling Flatness Enhancing Gusset Cooling Ideal For Tacky Films on Inside (Ionomers)
Available tower Space	Unit Height 500mm Clearance 600mm	Unit Height 500mm Clearance 900mm
Controls	Local HMI	LocalHMI, ModBus Or OEM spec
HMI	7"	7" standard
	Bubble temp trending Simple 1 touch controls Film temp alarm Ambient Temp sensor	Bubble temp trending Simple 1 touch controls Film temp alarm Ambient Temp sensor Export data to USB Chiller control Bubble not present function OEMInterface
Temp Sensor	1 infrared (Above)	2 Infrared (Above + Below)
Position Control	1 short range ultrasonic sensor	1 ultrasonic sensor
Options	<ul style="list-style-type: none"> X treme ModBus data acquisition 	<ul style="list-style-type: none"> 10" HMI X treme X Tra Dual screen
Fan Size	3000m3/h	5000m3/h
Heat Exchanger	30kW	60kW
Installation / commissioning	By User	By User



SDF - Single Directional Flow



DDF - Dual Directional Flow



OptiCool Model	Min	Max	Max Opening*	OptiCool Model	Min	Max	Max Opening*
07 SDF/DDF	350	700	1100	20 SDF/DDF	670	2000	2150
10 SDF/DDF	350	1000	1100	23 SDF/DDF	780	2300	2500
13 SDF/DDF	440	1300	1500	26 SDF/DDF	870	2600	2800
16 SDF/DDF	540	1600	1700	28 SDF/DDF	940	2800	3200
18 SDF/DDF	600	1800	2000	30 SDF/DDF	1000	3000	3200

* Max Opening = Largest Layflat that can pass through the model

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