



s.r.l.

Italian quality, italian flexibility

New solutions for **blown** film **extrusion**

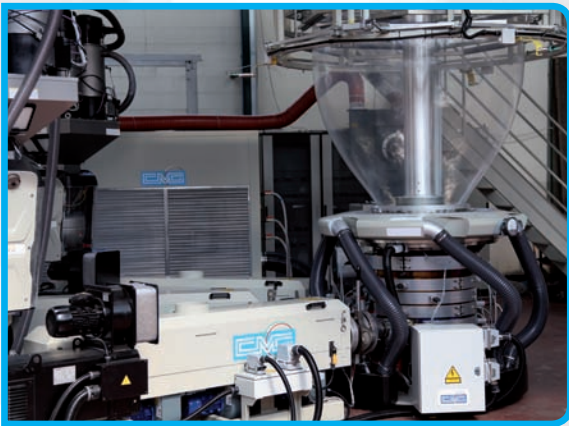


INNOEX

High performance three-layers extrusion lines



INNOEX



High performance, up to date technology, cost effectiveness in a Customer oriented coextrusion line

The increasing request for machines dedicated to the production of innovative plastic film, technologically advanced and economically advantageous, is the basic criterion for the development of the new INNOEX Coextrusion Centre machines. The production of high-quality film requires:

- a continuous avant-garde evolution of the basic technology regarding screws and extrusion heads, cooling rings and systems for internal bubble cooling, haul off and winders;
- an always more complete and efficient process control;
- the details' care in every production phase: from the project choices up to the selection of the materials' components and treatments, from the assembling up to the installation, from the start-up to the assistance service all along the machine's life.

These elements, all together, guarantee the production of planar and smooth film, with controlled thickness, with severe and repetitive optical and mechanical features, with defined and constant width, wound up layer per layer at the correct tension in order to produce reels with cylindrical geometry, planar sides and without creasing.



Process control

The operator's interface is graphic, intuitive and multilingual. Every component is continuous(ly) monitored through a PLC.

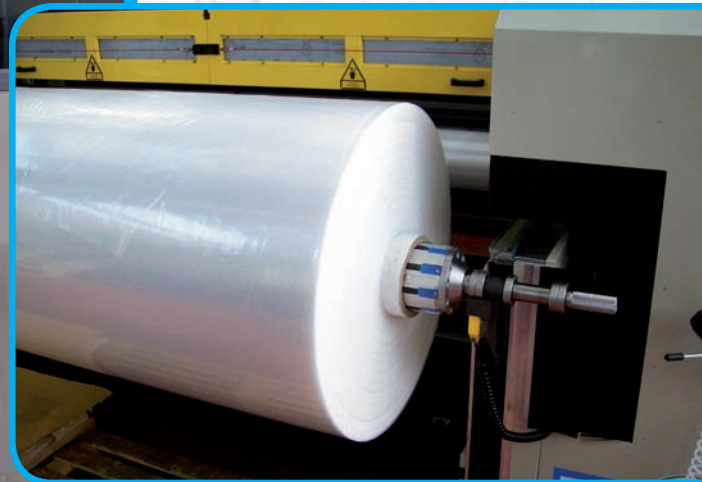
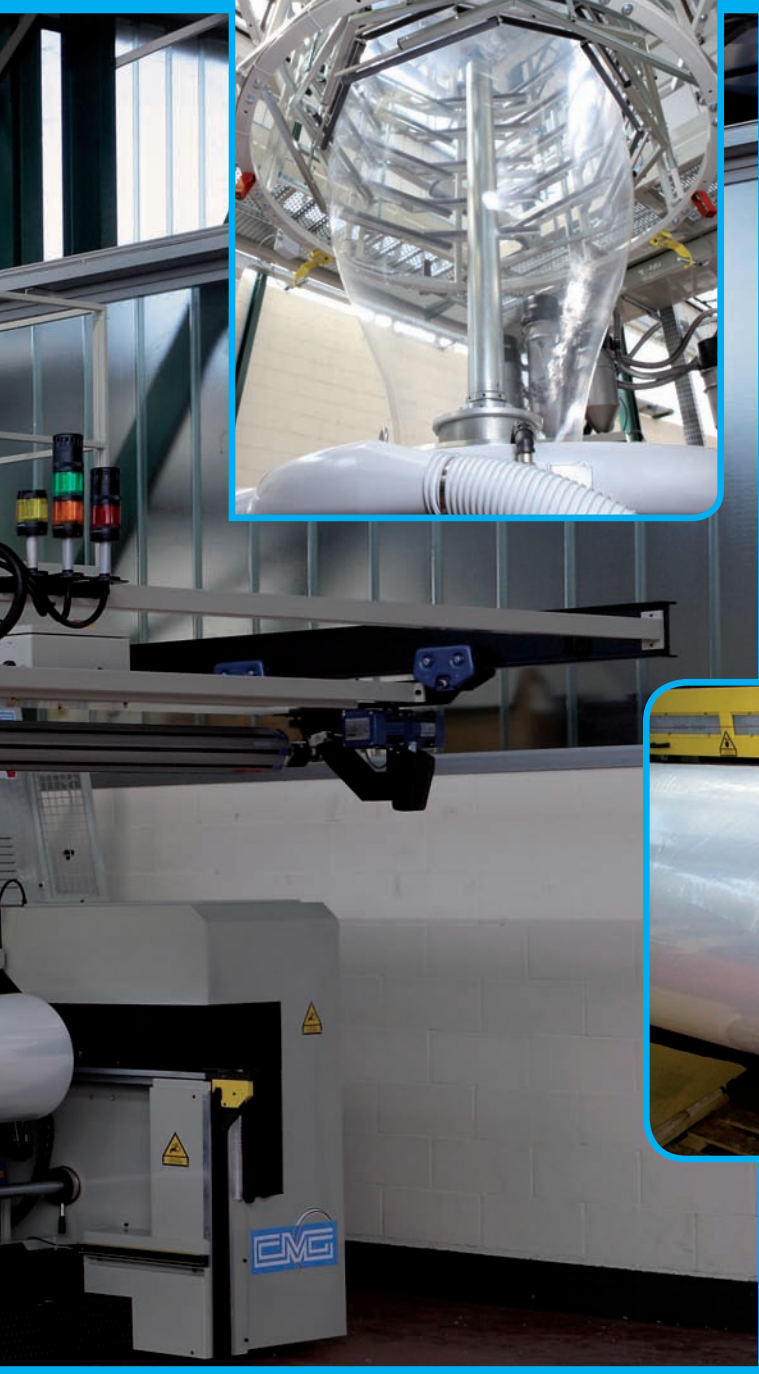
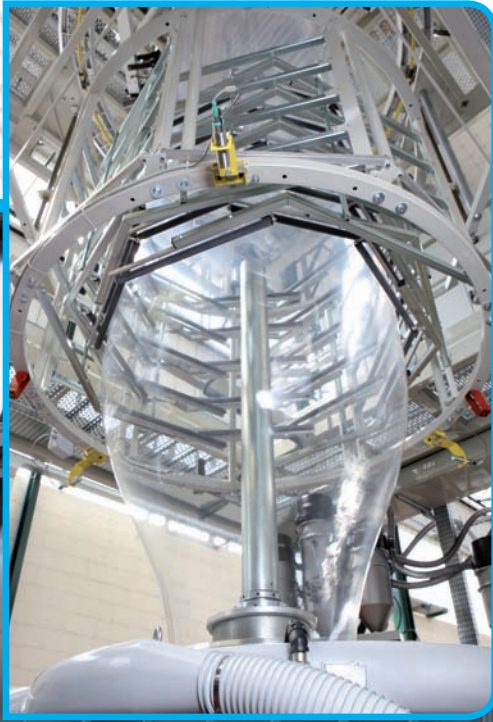
Set Point of temperature and speed, gravimetric dosing, linear weight control, thickness profile, start-up and turning-off ramps, recipes management, reports, management of events and alarms are the typical performed functions. The remote connection through LAN is standard.

LSW winder

Today the LSW winder is available in various useful widths, motorizations and configurations.

The classic disposition is double winder back to back. On choice, the machine can be supplied single or front to front. Peripheral winding, peripheral with assisted centre and gap.

The reel formation takes place on horizontal guides so that the contact pressure is not influenced by weight's components of the reel itself. A dancer system grants the constancy of the winding tension and the speeds' synchronization.



CR400/650 air rings and IBC

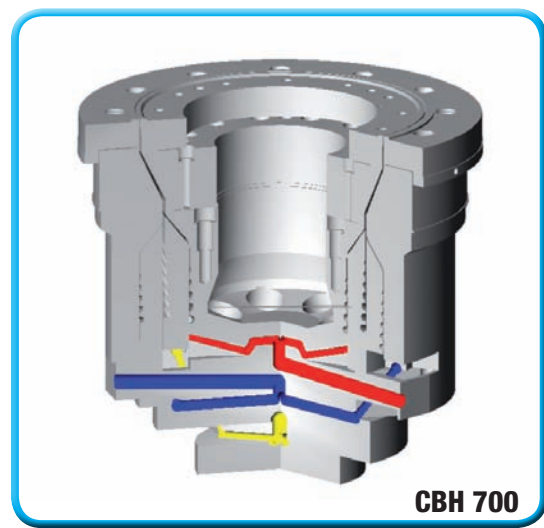
The dual lip technology allows to obtain big air volumes without jeopardising the bubble stability, resulting in an increase of hourly output and improvement of thickness profile. When adding the IBC internal bubble cooling system, the cooling efficiency will result to be improved, giving to the film a major transparency.

Hourly production per diametrical mm of die : 1,3 - 1,4 [Kg / (mmxh)].
 Bubble stability with blow ration from 1,2 up to 3,5 and more.
 (Special inserts on demand for specific dedicated productions).
 Optional thickness control system with closed air ring.

The points of strength of the machine

- 3 layers extrusion head CBH 500/700 with radial distribution;
- Employment of forged materials to prevent deformations due to thermal cycles;
- Project of channels and spirals assisted by a program of flows calculation for the employment of a wide range of materials. Shear rate optimized to prevent the incrustations, reduce the residence time and speed - up the structure 's changes. Uniform flow's distribution inside the spirals in order to obtain a reduced variation of the film thickness.
- Surfaces of slide chromed to thickness.
- Interchangeable male. Warming male.

CONFIGURATIONS AND OPTIONS	BASE
Granules suction	●
Gravimetric dosing system	●
Cylinder with grooved bush	●
Barrier screw	●
Helicoidal mixer	●
Screw armor-plating	●
Bimetallic cylinder	●
Quick change die gap	●
Extra die gap	●
IBC + width control and bubble guide	●
IBC - tubular width and bubble guide	●
Thickness control option	●
Pressure probe and temperature melt	●
Pressure probe downstream screenc.	●
Crick screenchangers	●
Gusseting triangles	●
Carbon fiber rollers	●
Corona treatment	●
Microperforator	●



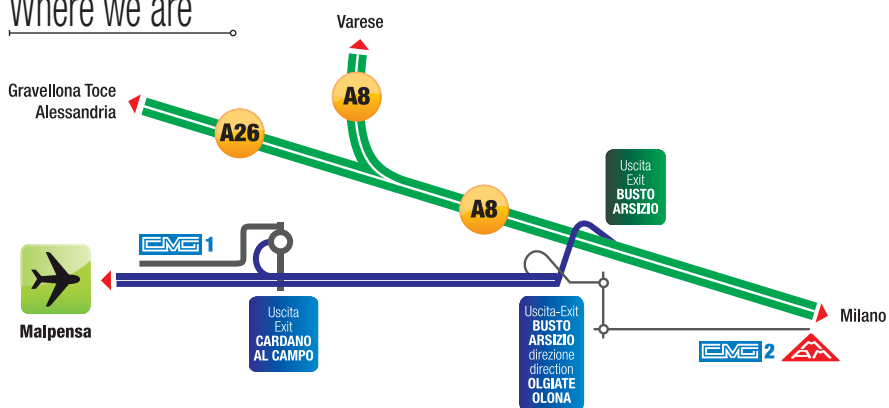
● Standard
● Optional

MODEL		S	M	M Plus	L	L Plus	XL	XL Plus	
Width	gross	mm	1600	2000	2400	2800	3000	3300	3600
	net	mm	1500	1900	2300	2700	2900	3200	3500
Extruders		mm	2x55	2x70	2x70	2x70	2x70	2x70	2x80
			1x75	1x80	1x80	1x80	1x100	1x100	1x100
Fixed head			CBH 500	CBH 700	CBH 700	CBH 700	CBH 700	CBH 700	CBH 700
Optimum dies range	min-max	mm	150/350	300/650	300/650	300/650	300/650	300/650	300/650
IBC			Yes						
Double flux air ring			CR 400	CR 650	CR 650	CR 650	CR 650	CR 650	CR 650
High performance three exits air ring			Optional						
Bubble-guide			Model depending on the application						
Oscillating haul off			HO 1600	HO 2000	HO 2400	HO 2800	HO 3000	HO 3300	HO 3600
Winder			LSW 1600	LSW 2000	LSW 2400	LSW 2800	LSW 3000	LSW 3300	LSW 3600
Max. reel diameter		mm	1200 (1100 Reverse)						
Thickness range			10 / 250						
Line speed		m/min	50 / 225						
Air shafts			3" e 6"						

WINDER MODELS	SB	SC	ST	SR	SL
	Surface base	Surf. Cling Stretch	Surface Technical	Simple Reverse	LUX Reverse
Front to front winder	●	●	●	●	●
Separator rolls after calender	●	●	●	●	●
Knives oscillation	●	●	●	●	●
Plunger transversal cut	●	●	●	●	●
Hoists for air shafts	●	●	●	●	●
Automatic reels unloading	●	●	●	●	●
Cooled "S" rollers at the entry	●	●	●	●	●
Air shafts pre-acceleration	●	●	●	●	●
Sticky films package	●	●	●	●	●
Auxiliary nip motorization	●	●	●	●	●
Axle motorization (axial motor - photocells for gap - reverse)	●	●	●	●	●
Trims scavenging	●	●	●	●	●
Antistatic fans	●	●	●	●	●
Winder roll surface	Rubber	Chrome	Rubber	Rubber	Rubber
Rolls silicon coating	●	●	●	●	●
Change without glue	●	●	●	●	●
Non compatible combinations	Reverse and change without glue Plunger transversal cut with thick and gusseted film				



Where we are



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