


***plasti*blow**
EXTRUSION BLOW MOULDING 

40 *Years*
1981 - 2021
ANNIVERSARY 

20 *Years*
FIRST ELECTRIC
EBM MACHINE 

ALL-ELECTRIC EBM MACHINES OUR EXPERIENCE AT YOUR SERVICE



Cosmetics
& Personal Care



Food
& Beverage



Dairy



Pharmaceutical
& Medical



Motor oil
& Car Liquids



Home
Detergents



Agrochemicals
& Industrial Chemicals



Toys
& Sports

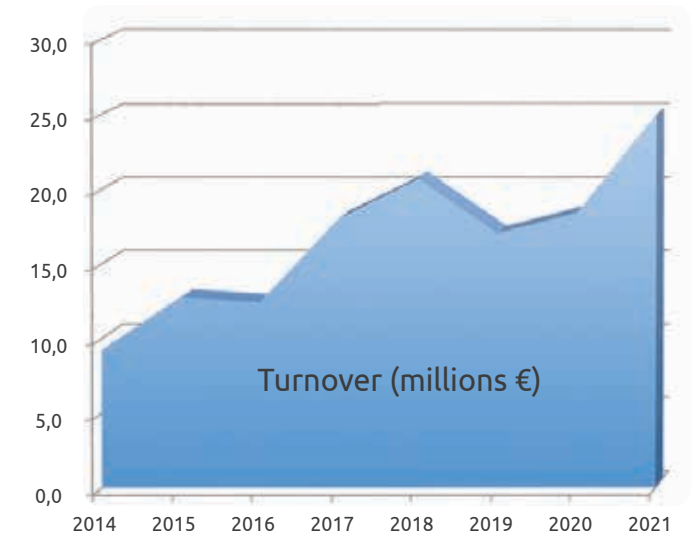
PLASTIBLOW CONTINUOUS EXTRUSION BLOW MOULDING TECHNOLOGY

- 50 years of experience in the design and production of blowing machines. A competence available to many industrial sectors for the production of single or multi-layer containers.
- Innovation and evolution; these two words sum up half a century of work for Plastiblow.
- Plastiblow, a leading reality in the field of electric blow-moulding extrusion machines.



COMPANY AT A GLANCE

- Offices & main manufacturing facility are located in Milan
- Total area of 7500 m², including 3600 m² of indoor area
- Machine frames are manufactured in another building of 2000 m² close to the main facility
- Plastiblow is part of the Plastimac Group, established in 1964
- Expected turnover growth to over 25 million Euros for the financial year 2021
- A 'customer oriented' sales & technical staff, many with 30+ years experience in blow molding
- Lean Management with ownership partners directly involved in operational roles



CHRONICLE

- 1964** Plastimac Group was founded, distributor of primary plastics processing machinery
- 1972** Plastiblow brand of EBM machines was initiated and sold thru Plastimac Group
- 1979** Moved to present facility, in Milan area
- 1981** Plastiblow operates as an independent company, but still under Plastimac ownership
- 1984** New design of EBM machines with toggle clamp systems
- 1993** First to introduce horizontal carriage movement on linear guide rails
- 2001** Plastiblow introduced its first blow molder with electric servo-drive motors at K2001
- 2003** Plastiblow patent on ele-drive parison thickness control system
- 2010** First All-Electric PB30E machine
- 2018** Introduced All-Electric long stroke machines PB26ED-1300 12+12 cavities
- 2019** Updating of logo and corporate image
- 2020** Warehouse extension of 1600 m²
- 2021** Construction of a new office building.

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PLUS

For over 20 years Plastiblow continues to integrate innovative solutions in electric drives of blow moulding machines achieving many advantages:



Less environmental impact

No hydraulic oil to dispose, less noise



Lower energy consumption

Measured consumption lower or equal to
 $\leq 0,29$ KWh/Kg including extruder heating



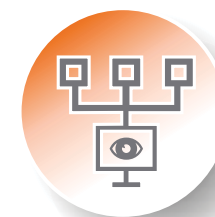
**Higher repeatability
and greater productivity**

Reliable and precise mechatronic systems vs
hydraulic system with oil condition variations



Lower maintenance costs

Reliable and precise mechatronic
systems vs many hydraulic components that
require frequent maintenance



Integrated control systems

Telediagnosis and statistic process control



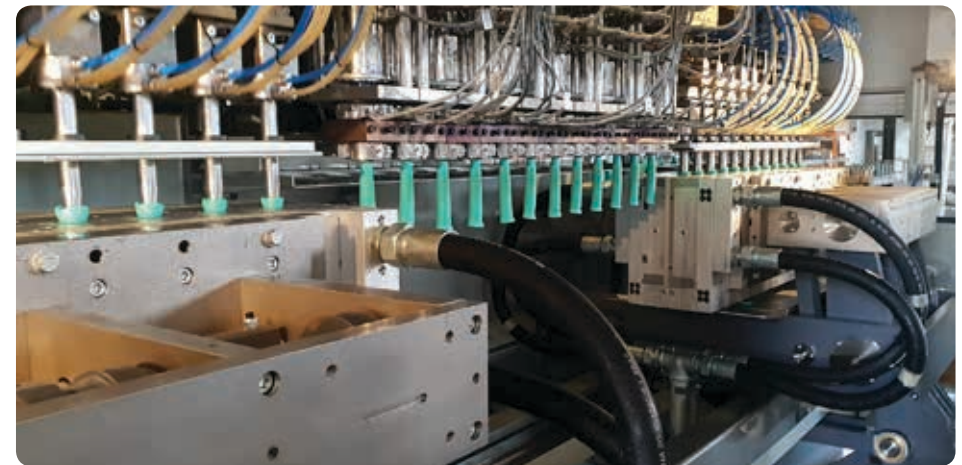
A COMPLETE RANGE FOR EVERY PRODUCTION REQUIREMENT

MOD.	Moulds (n°)	Stroke (mm)	Extruder									Volume max. (l)	Clamping force max. (ton)
			E42	E50	E60	E70	E80	E90	E100	E120	E135		
			L / D ratio										
			24	25	25	25	25	25	28	28	28		
PB3ES	1	260 - 300 - 330	●	●	●							1,5	3
PB3ED	2												
PB6ES	1	300 - 380 - 450		●	●	●	●					3	6
PB6ED	2												
PB12ES	1	430 - 480 - 630			●	●	●	●				5	12
PB12ED	2												
PB15ES	1	500 - 700 - 800			●	●	●	●				8	15
PB15ED	2												
PB22ES	1	500 - 800 - 1300				●	●	●	●	●	●	15	22
PB22ED	2												
PB26ES	1	500 - 800 - 1300				●	●	●	●	●	●	18	26
PB26ED	2												
PB30ES	1	700 - 1000 - 1400						●	●	●	●	25	30
PB30ED	2												
PB35ES	1	700 - 1000 - 1400						●	●	●	●	30	35
PB35ED	2												

MACHINE FEATURES & STRENGTHS

Main mechanical movements are carried out with servo-driven electric motors

- Energy savings: typical max consumption measured is 0,28 kwh/kg (including extruder plasticizing and heating - which is almost entirety of the consumption)
- Reduction of environmental impact – (NO hydraulic oil to dispose of and reduced noise level (NO hydraulic pump))
- Ideal for clean room operations
- No maintenance for hydraulic related parts (valves, hoses, seals, etc.)
- Repeatability of machine movements, **always** (not subject to oil heat & viscosity conditions) = higher productivity



EXTRUSION BLOW MOULDING MACHINES DETERMINATION OF MACHINE RELATED ENERGY EFFICIENCY CLASS

EUROMAP 46.1



	Class	Specific energy consumption E_{sp} [kWh/kg]
	1	> 1.30
	2	≤ 1.30
	3	≤ 1.00
	4	≤ 1.80
	5	≤ 1.62
	6	≤ 1.53
	7	≤ 1.45
	8	≤ 1.39
	9	≤ 0.34
	10	≤ 0.29

A plus ("+") shall be added to the class, if the determined idle power is less than 1 kW.



MACHINE FEATURES & STRENGTHS

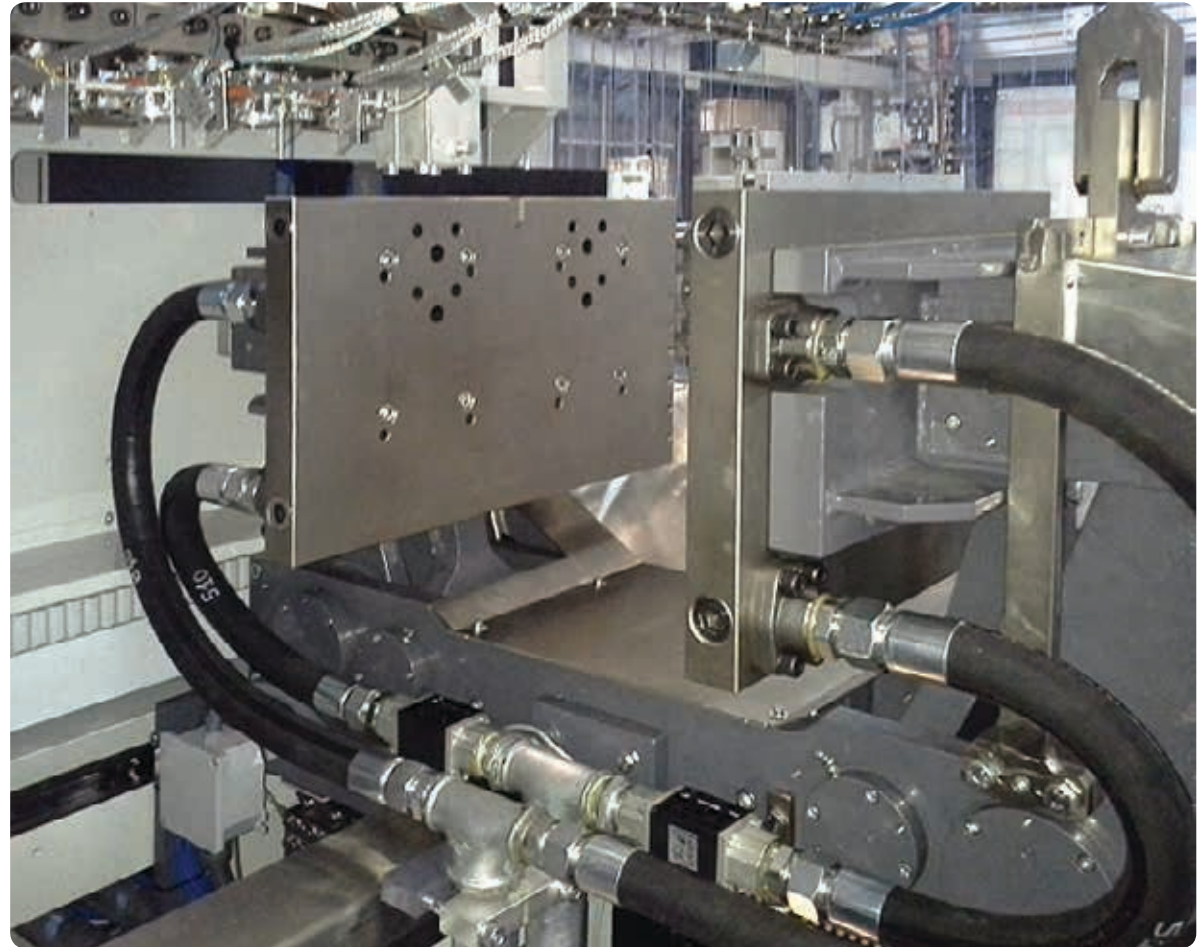
1 DESIGN AND ACCESSIBILITY

- Particular care in design of guards to keep the top & tail flash clean on its way to scrap conveyor.
- Slots in front gate to allow quick & easy parison centering adjustment (tool with extended arm is supplied with machine).
- Front gates built with safety laminated glass for long lasting transparency.



2 QUICK MOLD CHANGE

- Platens with built in cooling channels
- Creep speed in safety mode
- Blowpin centering aid
- Electric height adjustment on parison cutter
- Position indicators for deflash, extruder, conveyor heights



Easy access to mold area for tool changeover and maintenance jobs

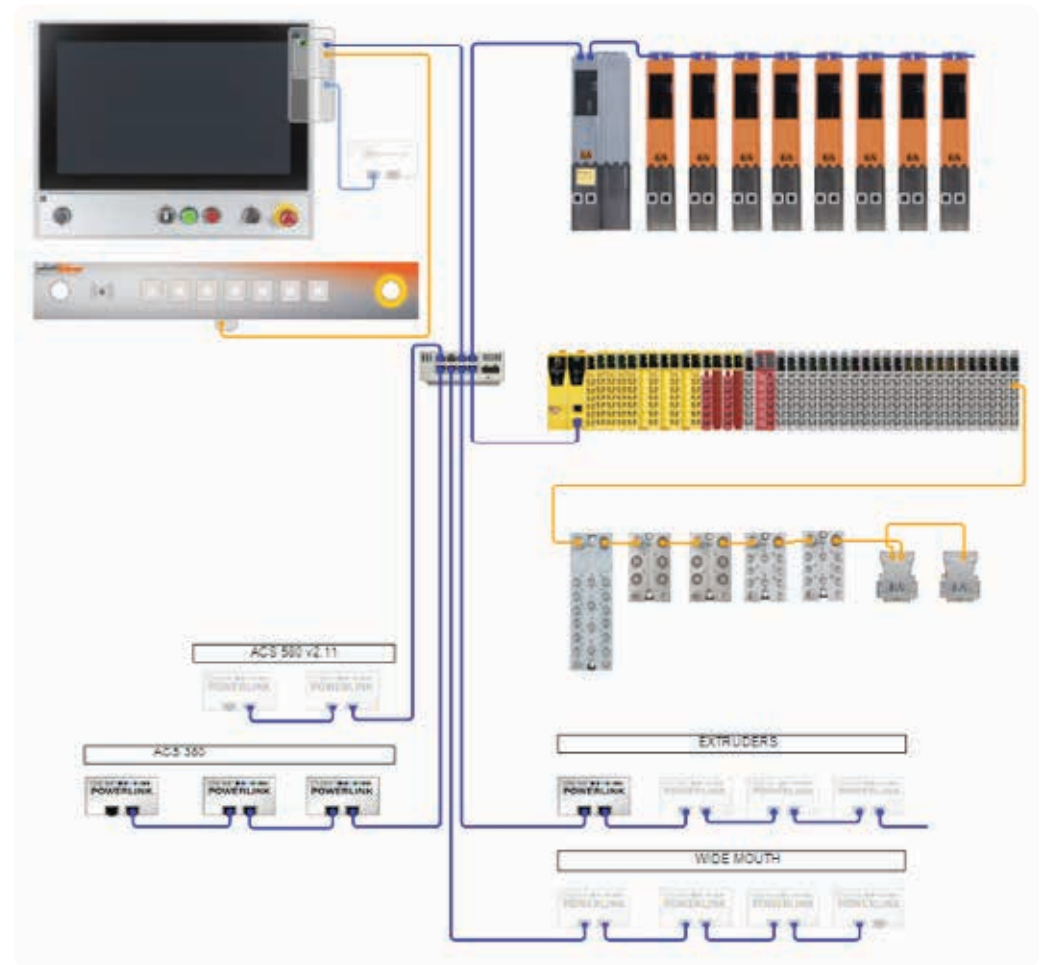
Creep speed on clamp, carriage and blow pin movements, also with gates open for easy setup

Portable hand held control device (plugs into a socket located on the machine frame above the clamp area) to center the blowpins also with gates open



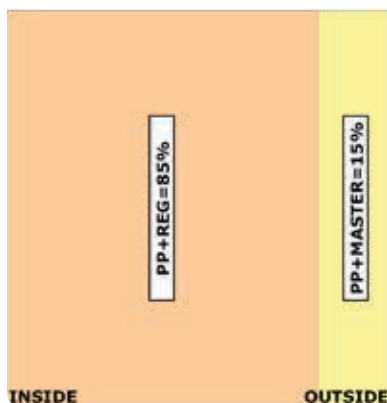
6 B&R CONTROL SYSTEM

- High-level field-bus architecture for the connection to all the intelligent remote components (I/O modules, drives and safety systems)
- Kinetic Energy recovery system (KERS)
- High resolution color TFT display
- Auto-diagnostics, history of alarms for problemsolving aid
- Remote service via internet with industrial router
- Timed programming for maintenance operations



COEX SYSTEM SUPPLIED FOR DECO 2 LAYER

- Decorative outside layer (0,15-0,25 mm)
- Main regrind layer (aprox. 80%-85% wall thickness).



SOFT TOUCH

- easy handling;
- softness & good resistance
- pleasant to touch;
- enhanced aesthetic;
- easy handling;



COEX SYSTEM SUPPLIED FOR RECO 3 LAYER - PCR

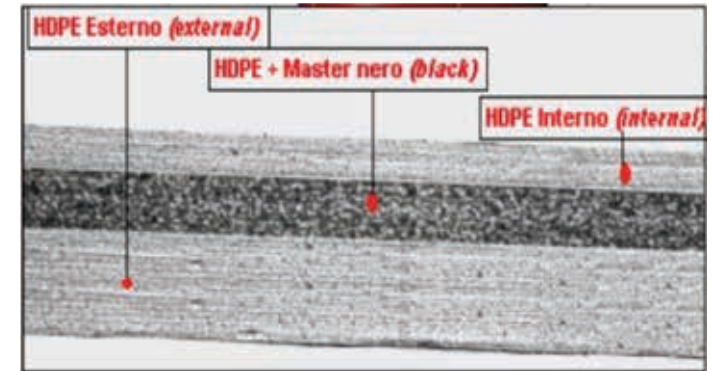
- PB30EDL double station with single head Reco 3 Layer & Viewstripe, for production of 20 lt containers, in 1+1 cavities, with PCR in middle layer



COEX SYSTEM FOR COEX 3 LAYER – LIGHT BARRIER FOR MILK

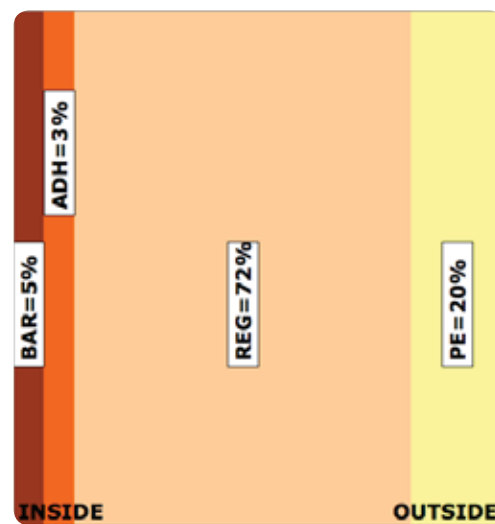
■ A 3 layer configuration is used on milk bottles, with a black colored layer in the middle, for light barrier on:

- UHT bottles for long shelf life
- Fresh milk bottles, to block out refrigerator light on store shelves, to maintain the taste unaltered and keep nutrient content from degrading.



COEX SYSTEM SUPPLIED FOR 4 LAYER – BARRIER AGRO CHEMICAL

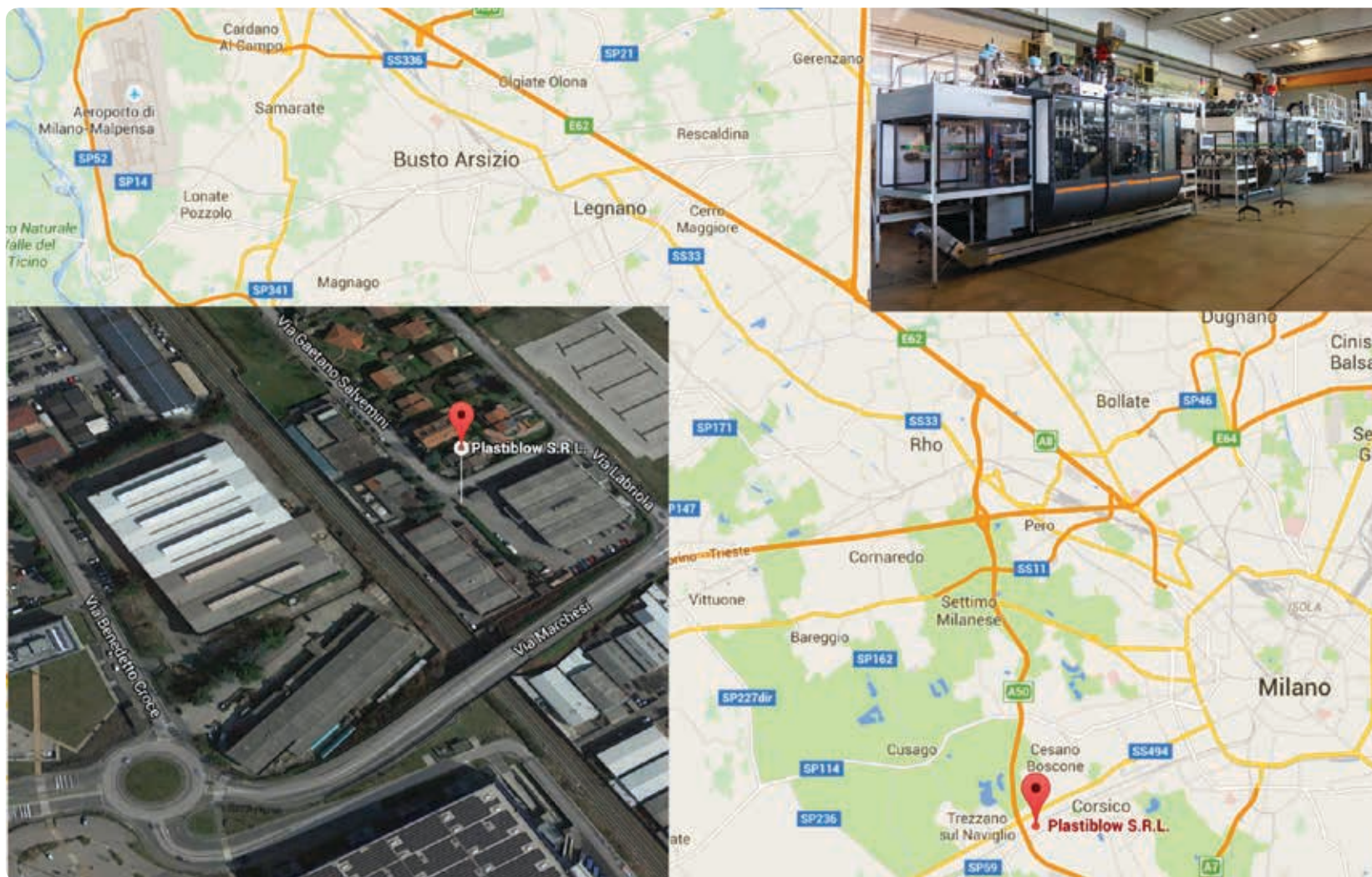
- For chemicals packaging (detergents, fertilizers, fungicides, ...) PA or EVOH are used as a barrier to improve resistance to aggressive substances. Plastiblow realized various 4-layer co-extrusion blow-moulding machines with single or multiple heads.



COEX SYSTEM SUPPLIED FOR 6 LAYER – BARRIER FOOD

- PB22ED-1200 with eight head Coex 6 Layer, for production of ketchup and sauce bottles in 8+8 cavities at 125mm CD
- PB6ED with Quad head Coex 6 Layer, for production of flavored milk bottles in 4+4 cavities





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EXTRUSION BLOW MOULDING 



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