

Fieldbus architecture for intelligent machine integration in industrial processes. Electronic module for the recovery of kinetic energy of carriages (KERS). Servo driven movements covered by patents. Head design optimized to guarantee maximum parison extrusion control and rapid heat exchanges. These and other solutions applied to our machines allow the greatest energy reduction in the blow moulding sector.

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



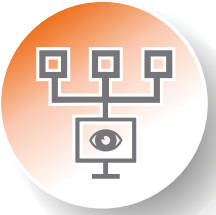
**Lower energy consumption**  
Measured consumption lower or equal to  $\leq 0,29$  KWh/Kg including extruder heating



**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

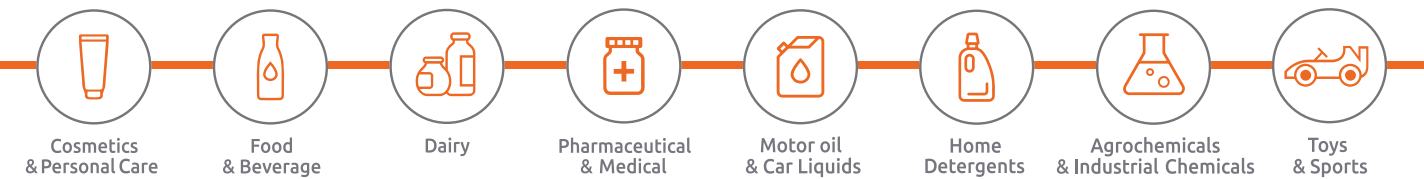


**A COMPLETE RANGE FOR EVERY PRODUCTION REQUIREMENT**

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										
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	480 - 700 - 800		●	●	●	●	●	●			8	15
PB15ED	2			●	●	●	●	●	●				
PB22ES	1	500 - 800 - 900				●	●	●	●	●	●	15	22
PB22ED	2					●	●	●	●	●	●		
PB26ES	1	500 - 800 - 1300				●	●	●	●	●	●	18	26
PB26ED	2					●	●	●	●	●	●		
PB35ES	1	700 - 1000 - 1300						●	●	●	●	30	35
PB35ED	2								●	●	●		
PB50ES	1	1000 - 1300							●	●	●	30	50
PB50ED	2									●	●		



**FULL ELECTRIC BLOW MOULDING MACHINES FOR A SUSTAINABLE DEVELOPMENT**



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1

**DESIGN and ACCESSIBILITY**

- sliding front doors
- safety laminated glass for maximum visibility over time
- contoured door to facilitate evacuation and scrap collection
- excellent accessibility for mould change and maintenance
- easy adjustments for machine setting up



2

**MULTI-CAVITY and COEX HEADS**

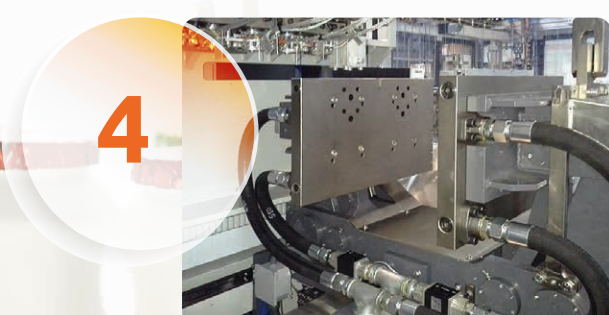
- proprietary technology heads up to 12 cavities and 7 layers
- technology for using PCR with 3-layer heads
- torpedo heads, double cardioid and spiral heads
- patented Eledrive weight adjustment
- quick colour changes
- remote control for die centering and weight adjustment
- deformable dies for industrial applications



3

**PARISON CUT**

- frontal or rotating cold cut
- frontal or side hot cut
- cut-weld or parison welding device
- servo-driven cutting units for superior performances



4

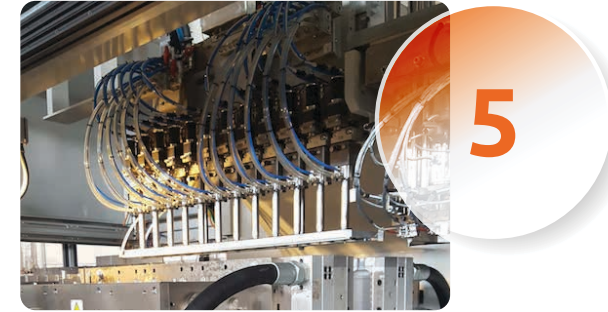
**MOULD CLOSING and MOULD CHANGING**

- horizontal carriage movement with linear guides
- quick couplings for water pipes or cooled backplates for quick mould changeover
- toggle closure systems for force reduction

Plastiblow is a company of the Plastimac group with over 50 years of experience in the design and manufacturing of extrusion blow moulding machines for the plastic industry.

Facing continuous technological challenges, by seeking solutions with the lowest environmental impact, Plastiblow placed itself in a position of leadership and global company in the blowing moulding sector.

An ever increasing number of satisfied customers use Plastiblow electric blow moulding machines for the production of plastic bottles and hollow body containers used in a vast field of applications such as cosmetics, personal hygiene, pharmaceutical, medical, food, house cleaning, chemistry and automotive industries.



5

**BLOWING UNIT**

- blowpin group mounted on a sliding plate on linear guides
- great rigidity of the structure to avoid deformation of the neck
- blowpin centering remote control
- proportional blowing air and recirculation
- filtering and washing systems for aseptic blowing



6

**DEFLASHING and BOTTLE EXIT**

- multi-axis or servodriven pick-up systems for the deposit of bottles on a belt
- bottle take out systems with grippers or with suction cups and bottle turning
- scrap control to verify correct deflashing
- deflashing units incorporated in the carriage with mask adjustment systems
- space-saving bottle take out solutions.
- internal leak testers with individual or multiple rejection



7

**CONTROL UNIT and INDUSTRY 4.0**

- fieldbus architecture with deterministic access
- ergonomic operator panel with high resolution TFT monitor
- KERS module and energy consumption analyzer module
- remote connection via internet with integrated industrial router
- Statistical process control and industry 4.0 smart factory compliance



8

**DOWNSTREAM & AUXILIARY EQUIPMENT**

- IML units for label applications in the mould with electrostatic or vacuum systems
- scrap recovery lines, refrigerators, air dryers
- cartoning, tray packing and bagging machines, sleeves and other in-line automation systems
- bottle leak testers with weight control, optical inspection with self-adjusting capability.

**PLASTIBLOW, COMPETENCE THAT COMES FROM EXPERIENCE**

