MT SERIES

Rotary Extrusion Blow Molding Systems

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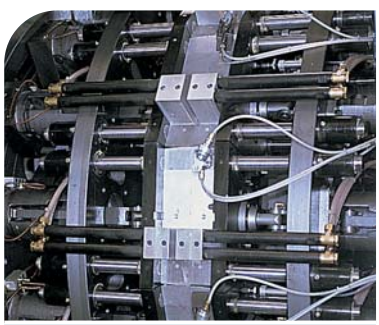
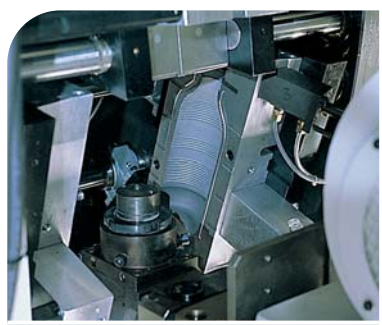
MT SERIES

MECHANICAL ROTARY EXTRUSION BLOW MOLDING SYSTEMS for bottles with a capacity of up to 3.5 liters made from HDPE, PP, or other materials used in multi-layer applications (EVOH, polyamide, adhesives, etc.).

- TANGENTIAL mold arrangement on the rotary plate.
- Mold-guided parison.
- Blow needle-based molding system.
- Parison cut at the intersection between two molds, without the use of shears.



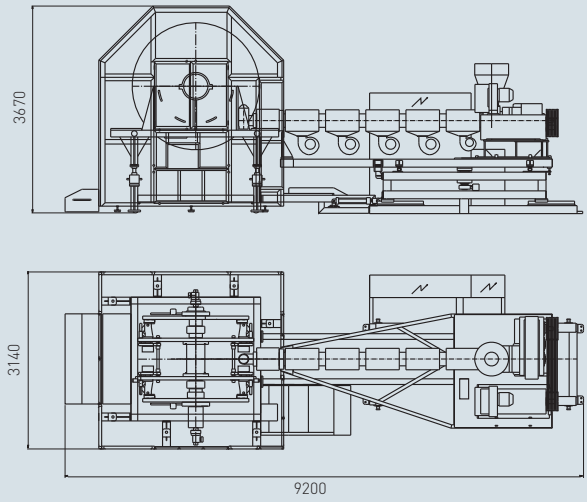
Rotary wheel, where the molds are placed in a tangential arrangement.



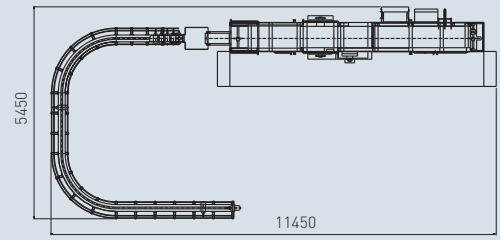
Arrangement of head in relation to the molds.

GENERAL DIMENSIONS

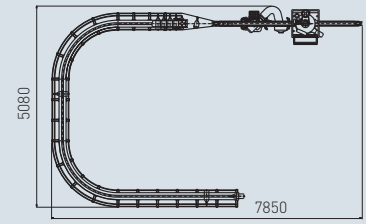
MT-14 model (without trimmer)



Transfer and mixed deflashing unit



Transfer and rotary trimmer for domes

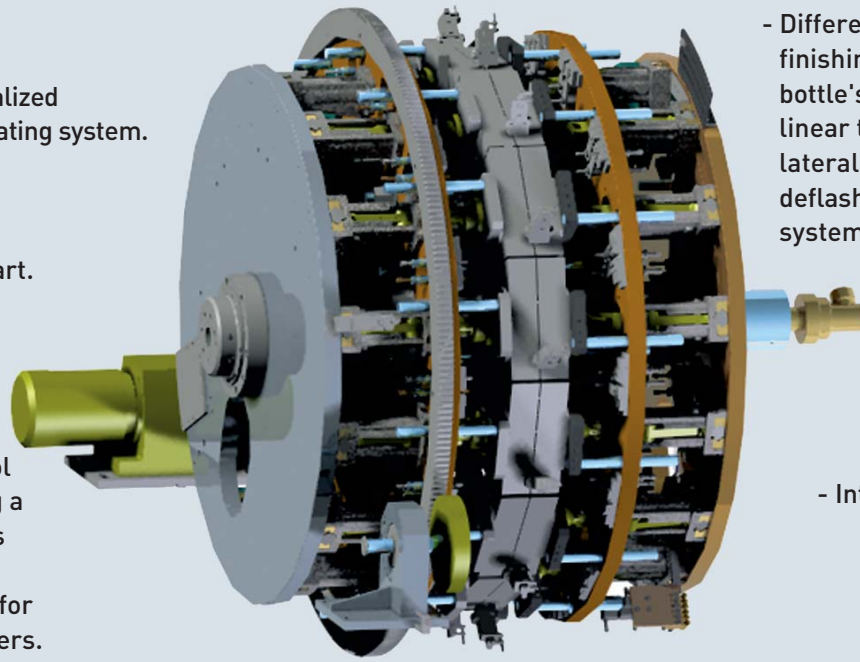


RELEVANT CHARACTERISTICS

- Centralized lubricating system.

- Automatic start.

- Integrated control system, including a parison thickness controller, with a display interface for process parameters.



- Different deflashing and bottle-finishing systems based on the bottle's characteristics (revolving or linear top dome cutters, mixed lateral deflash and neck cutters), deflashing and leal-testing compact systems.

- Integrated hoist.

GENERAL TECHNICAL SPECIFICATIONS	MT-12			MT-12-NtN			MT-14			MT-14-NtN			MT-16			MT-16-NtN		
Bottle Dimensions																		
Maximum Capacity (cc)	3.500			350			3.500			350			3.500			350		
Maximum Diameter (mm) (L/D)	220			90			220			90			220			90		
Maximum Height (mm)	320			200			320			200			320			200		
Blow Molding Wheel																		
Number of Cavities	12			12			14			14			16			16		
Maximum Mold Opening (mm)	280			160			280			160			280			160		
Mold Closing Force (kg)	9.000			3.000			9.000			3.000			9.000			3.000		
Maximum production bottles/h																		
[Depending on the type of bottle]	6.500			12.000			7.800			14.000			9.000			16.000		
Extruder																		
Screw dimensions (mm x L/D)	Ø114x24	Ø127x25	Ø152x25	Ø114x24	Ø127x25	Ø152x25	Ø114x24	Ø127x25	Ø152x25	Ø114x24	Ø127x25	Ø152x25	Ø114x24	Ø127x25	Ø152x25	Ø114x24	Ø127x25	Ø152x25
Plastification capacity for PEHD (kg/h)	340	430	650	340	430	650	340	430	650	340	430	650	340	430	650	340	430	650

Other configurations with different numbers of molds are possible.

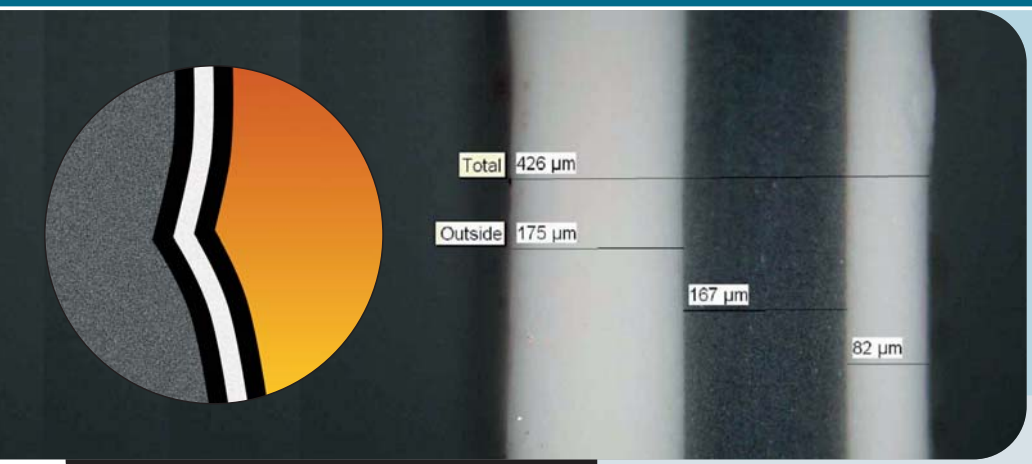
NECK-TO-NECK application

The NtN concept (bottles joined at the neck) can be applied to MT Series models, doubling the machine's number of cavities and its production capacity as a result. Mostly designed for small single-serve bottles for dairy product (or similar) applications.

Characteristics

- Two cavities per mold.
- Blow needle-based blow molding at the mold's center.
- Conveyance to deflashing unit by means of conveyor belts.
- Two-phase deflashing: bottom deflashing and top dome cutter.

COEX Application for Multi-Layer Bottles



The application of coextrusion systems for multi-layer bottles is enormously simplified with the use of ROTARY machines, since only one head is needed, regardless of the number of molds.

Most Common Configurations

- 2-layer bottles with 2 extruders.
- 3-layer bottles with 2 or 3 extruders.
- Bottles of up to 7 layers with materials with barrier properties and materials for joining layers.

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UROLA, S.C.
Urola Kalea, s/n - Apdo 3
20230 Legazpi (Gipuzkoa) SPAIN
Teléfonos (34) 943 73 70 03 - Fax: (34) 943 73 09 26
e-mail: info@urolasolutions.com

www.urolasolutions.com