Via Incisa 1, 37022
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Used Blow Molding Machine Terekas up to 5L 1000 bph

Machine type:	Blow Molding Machine
Ref:	SO125
Model:	FlexBlow 1
Year:	2016
Speed:	1000 Bottles/hour
Condition:	Ready for Operation
Price:	€ 65,000
Formats:	2 L, 5 L, 1 L
Containers:	PET

Technical details

No. of cavities:	1	Elevator:	0
Preforms tipper:	0	Unscrambler:	0
Compressor:	1	Chiller:	1
Preform neck type:	See description	Air Recovery System:	0
Type:	0	Safety features:	Yes
Manuals:	Yes	Width:	5000 mm
Length:	5000 mm	Height:	2000 mm

Description

Used Blow Molding Machine Terekas up to 5L 1000 bph

This used blow molding machine from Terekas, model FlexBlow 1, is designed for demanding PET bottle production, offering advanced flexibility and efficiency. With a maximum bottle capacity of up to 5 liters and a throughput of up to 1,000 bottles per hour, the system is engineered for operations that require consistent product quality across multiple neck finishes and formats.

The FlexBlow 1 utilizes a linear blow molding architecture, equipped with a single cavity, making it ideal for short production runs, frequent changeovers, or pilot lines. It integrates seamlessly into existing filling and packaging lines, thanks to its modular design and compatibility with multiple container types. The preform feed system includes a tipper, unscrambler, and loader, all designed to ensure reliable, jam-free supply of preforms into the production cycle.

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The core of the process begins with a robust preform heating tunnel, employing infrared (IR) lamps enclosed within a secure, ventilated housing. Preforms are conveyed through the heating zone by an articulated chain system, which ensures precise and uniform exposure to the heat source. The IR heating zone is shielded by a protective grid, preventing accidental contact while maintaining optimal thermal consistency across the preforms. The tunnel design avoids excessive hot spots or thermal degradation of the preform, contributing to higher end-product quality and reduced scrap rates.

Precise Control and Reliable Operation

After exiting the heating tunnel, preforms are transferred automatically into the blow molding station. The FlexBlow 1's single-cavity blow unit utilizes high-efficiency pneumatic actuators and robust mold clamping mechanisms to produce containers up to 5 liters in volume. This configuration allows for rapid cycling and excellent pressure control throughout the stretch-blow sequence. The complete air handling system is engineered for reliability, with integrated air recovery to optimize compressed air consumption and reduce overall utility costs.

Critical to the system's operation is the dedicated chiller, which ensures mold cooling circuits remain within the required temperature range, guaranteeing consistent bottle wall thickness and minimizing cycle times. All pneumatic and hydraulic components are mounted in a well-organized auxiliary area, with clearly labeled connections for maintenance and diagnostics. Filtration and lubrication points are readily accessible, supporting a high level of system uptime and minimizing unscheduled stops.

Machine operation and process parameters are managed through a touchscreen HMI panel installed directly on the electrical cabinet. This interface provides real-time control over all production settings, alarm management, and maintenance prompts. The entire machine is wired in a highly organized manner, with secured electrical panels, neatly routed cables, and clearly identified terminals for ease of troubleshooting. All safety guards and interlocks are present and functional, ensuring the operator's safety while maintaining accessibility for service interventions.

Versatility in Container Formats and Ease of Changeover

A major advantage of the Terekas FlexBlow 1 blow molding machine is its capability to handle a wide range of neck finishes and preform geometries. Supported neck types include 24/410, 25mm Snap On, 28/410, 28mm ROPP, 38SP400, 38mm 2-Start, 38mm 3-Start, and 53SP400. This broad compatibility allows the system to produce bottles for a diverse set of applications, from standard beverage packaging to specialty food, household, or personal care containers.

Changeover procedures are simplified by a fast-format-change mechanism, enabling the operator to quickly adapt the machine to new preform sizes or bottle formats with minimal downtime. The mechanical components, including preform guides, grippers, and neck holders, are engineered for tool-free adjustments where possible, supporting both efficiency and repeatability. The blow molding cavity, heating tunnel, and preform handling system are all designed for rapid and reliable adaptation to varying production demands.

With a total production record exceeding 20 million bottles, the FlexBlow 1 demonstrates proven durability and reliability in continuous industrial environments. Regular maintenance procedures are supported by comprehensive manuals and technical documentation provided with the machine. Spare parts compatibility is assured, as key mechanical and electrical components are based on industrial standards.

The blow molding system includes a complete preform handling line: a tipper allows bulk loading of preforms, which are then separated and aligned by the unscrambler before entering the loader. This ensures continuous feed into the oven and uninterrupted production cycles. The integrated compressor and air management modules are dimensioned

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for the machine's maximum rated output and are equipped with standard filtration and drying units. Cooling is managed by a dedicated chiller, designed to maintain optimal process temperatures for both the molds and pneumatic circuits.

All critical areas of the machine, from the oven to the blow station and auxiliary modules, are easily accessible for cleaning and regular inspection. The internal and external surfaces are clean and well maintained, showing no evidence of corrosion, oil leaks, or improper repairs. Safety labels and operating instructions are visible and up to date, providing an additional layer of operator confidence.

This used blow molding machine Terekas up to 5L 1000 bph stands out as a robust and versatile solution for PET bottle manufacturing. Its combination of single-cavity flexibility, advanced preform handling, and comprehensive safety and automation features make it particularly suited for companies seeking reliable, high-quality production with minimized changeover times. The machine's modularity, together with its documented maintenance history and clear process visibility, ensures consistent, repeatable results across a variety of container formats.

Key technical features:

- Linear single-cavity blow molding architecture for PET bottles up to 5 liters
- Maximum throughput up to 1,000 bottles per hour
- Compatible with multiple neck finishes: 24/410, 25mm Snap On, 28/410, 28mm ROPP, 38SP400, 38mm 2-Start, 38mm 3-Start, 53SP400
- Integrated preform tipper, unscrambler, and loader
- IR preform heating tunnel with protective grid and uniform temperature control
- Pneumatic blow station with air recovery and dedicated chiller
- User-friendly touchscreen HMI for process management and diagnostics
- Clean, well-maintained construction with accessible maintenance points and safety systems

This machine offers a solid foundation for efficient and high-quality PET bottle production, with the operational flexibility needed to meet today's evolving packaging requirements. For technical details or a consultation on integration, our team is available to support your project.