



Requirements and solutions

Sustainability and overall operating costs are the major factors taken into consideration by beverage companies today when investing in a stretch blow molder. Design specifications for the new Blomax Series IV generation thus stipulated that a production process be implemented that saves even more energy, while again cutting down on materials and optimizing line utilization. Working on Quality Function Deployment (QFD) principles, KHS Corpoplast based its development and implemented its plans consistently and exclusively in accordance with customer requirements.

Key Features

- Output of up to 72,000 bottles/hour, with bottle volumes ranging from 0.2 – 2.0 liters
- New heater. Exclusive use of energy-dense, near infrared radiation
- New Clever-Loc blow stations. Space-saving design without locking mechanism. Compatible with Series III molds.
- Preforms handled safely and with precision by active mandrels and TouchGrip grippers.
- Servo controlled StretchFlexx stretch system for high process stability, settable independent of the machine speed
- Eco-Space valves for further compressed air savings
- Very short product changeover with the SpeedLoc quick-change system
- Reduction of wear parts, simplified maintenance, improved access
- Efficient monoblocking thanks to flexible stretching and short ramp-up

Standard Equipment

- Machine concept suits all requirements: 4–36 blow stations, capacity of up to 72,000 bottles/hour
- Bottle volumes of 0.2–2.0 liters
- Modular design, large number of identical parts
- Blow stations without locking mechanism, compatible with series III molds
- Flexible StretchFlexx stretch system
- SpeedLoc quick-change system
- AIRBACK air recycling





Benefits

- High-performance stretch blow molder designed according to customer requirements for all systems with very high output performance
- Energy consumption further reduced in comparison with Series III: approx. 30% less heating energy and approx. 15% less air required
- Maximum availability and reliability, changeover times reduced by 25%, very low maintenance



Service
· Worldwide service
· Fast supply of spare parts
· Bottles & Shapes bottle design, development, and tests
· Modernization, retrofits
· In-house manufacture of blow molds
Options
· Heat-resistant equipment for hot fill bottles
· Preferential heating equipment for oval bottles
· Preform ionization
· AIRBACK air recycling (internal / external)
· Quality assurance systems (e.g. closed loop)
· Monoblocked version (InnoPET BloFill)

Technical Data
Type of machine blowing stations, prod. capacity
4-36 blowing stations 8,800 – 72,000 bottles/h
Bottle volume max. diameter max. height
0.1 – 2.5 Liter 115mm (125mm upon request) 365mm
Floor space, height
min. 7.4 x 3 x 3.25, max. 13.3, x 7 x 3.25 m
Basic machine weight
16,000 – 38,000 kg
Typical electrical consumption, 1.5 l - bottle, 30 g
InnoPET Blomax 4 = 32.7 kWh InnoPETBlomax 36 = 267.8 kWh
Blowing air, 35 bar, 1,5 l - bottle
InnoPET Blomax 4 = 524 Nm³/h InnoPET Blomax 36 = 4287 Nm³/h
Typical cooling requirement, 1,5 l - bottle, 30 g
InnoPET Blomax 4 = 9 kW InnoPET Blomax 36 = 70 kW
Number of active transport mandrels
InnoPET Blomax 4 = 134 InnoPET Blomax 36 = 308
Number of standardized installed heater boxes
InnoPET Blomax 4 = 4 InnoPET Blomax 36 = 24