

# Bronco

WE offer a total machinery for the production of containers including:

## Products

- Blow mold machine
- Preform hopper-feeders
- Molds and chillers for molds
- Compressors (Low blow and High Blow)\*

## Services

- installation service –with operator instruction in either our plant or yours
- One year parts warranty
- Technical support
- Bottle design service

(\* Compressors made to ISO 9001 standards)

## Bronco 3000



### Fully Automatic Three-Cavity Stretch Blow Molder

- Robust reliable construction
- products PET containers up to 3liters
- Twenty-four hour working at speeds of 3600b/h @ 250ml
- Completely Automatic – from feeding of the preforms, to delivery of the bottles

Our outstanding strengths as a supplier are that the Bronco group has been:

- Producing stretch blow mold machines for 15 years
  - Making bottles and jars with our own machines 24 hour per day, every day, for over a decade
  - Using these compressor packages for years
  - Continuously refining the quality and operations of our machines in our own bottle making plant
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### The results are:

Bronco 3000 machines are technically sophisticated yet very simple to operate AND

### **EXTREMELY RELIABLE**

Even in the most primitive technical situations

BRONCO 3000 DOES NOT USE HYDRAULICS

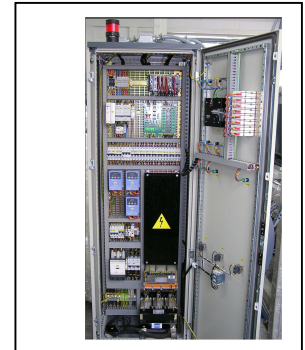
THERE ARE NO BREAKABLE PARTS

## Features of the Bronco 3000

- Precise, uniform, repeatable production.
- There is no hydraulics: Bronco 3000 is a linear machine, completely mechanical in design.
- Sensors control the movement of preforms from the hopper, down the slide feeder and onto the conveyor.
- Each preforms is loaded precisely onto the conveyor and pressed securely onto the mandrel. The preform then travels in a straight line trough linear ovens.
- There are 3 ovens in the latest Bronco 3000/3L. Each has 8 level of lamps. Within the ovens, each level of lamps is separately adjusted from the central control cabinet. The level and positioning of the lamps themselves is easily adjusted. The result is that exact heating profiles can be seat for differently designed preforms, aiming to produce a wide range of bottles, from 100ml to 3 litres.
- The timing of the processes of the stretching and blowing operations (precise settings of timing and speed for the stretch bar to move in relation to the initial formative blow and the follow up high-pressure blow) are all preset and automatically carried out.
- The clamping system, although space saving, is very powerful with particular feature that the molds once locked cannot opened high pressure blowing.
- The molds are kept chilled by cold water circulating through three the base and the walls of the molds. The temperature of the water is shown on gauges on the rotameter.
- Any fault in the stretch blow-mold process will cause the machine to shut down and an alarm to ring. The cause of the problem will be displayed on the PLCs readout (in whatever language programmed in for that client).
- All Bronco machines are precision built on our own workshops and rigorously tested prior to shipment.  
Since the Bronco group has been building machines and organization great depths of engineering talent.
- Within our own facility, we produce not only the Bronco machines, but also:
  - The PLC Both the hardware and the software are designed and constructed in our own computer department on site.
  - Molds up to 0,1 and 3 litres in size, both single, double and three cavity
  - PET preforms for our own use.
- Molds are constructed of aluminium and can be changes with ease (about 30 minutes)

## Control Panel (PLC)

- All the processing activities, from feeding the preforms to offloading of the bottles, are controlled by the PLC
- Troubleshooting: Errors and failures are diagnosed automatically and their descriptions displayed on the control cabinet's readout
- The PLC will maintain the desired speed of production even as ambient conditions change during any 24 hour period



## Bronco 3000 Technical Specification

Output for vol. 0.25 litres	up to 3600 b/h
Output for vol. up to 3 litres	up to 3000 b/h
Voltage three phase	208V, 220V, 230V, 240V, 400V or 440V as required by the buyer
Frequency	50 / 60 Hz
Installed power	38 kW
Recommend fuse on the connection	80A
Cross-section wire connection	25mm <sup>2</sup> (4AWG)
Average consumption	26 kW (depending on the product)
Control air	10 bar (oil free air)
Initial blowing	10 bar
Final blowing	25 bar
Air consumption (at 7 bar)	316 m <sup>3</sup> / hour
Air consumption (at 25 bar)	176 m <sup>3</sup> / hour
Mold: Aluminium blend	Three cavity
Height	2950 mm
Width	1000 mm (+600 mm control cabinet)
Length	4500 mm (without preforms hopper/feeder)
Weight (machine + mold + control box)	2500 kg
Workers	1
No. of Heating Ovens	3
No. of Lines of Lamps	8
Screw compressor 10 bar	According to size (~37 kW-- 10 bar)
Boost compressor 25 bar	According to size (~18.5 kW-- 25 bar)
Air Dryer	3.5 kW
Cooling water (closed flow)	10 deg.C
Chiller	8 kW

\* Approx.