



EXTRUSION
ISO 9001:2008 



FK/ABI-100-PC

BLOW MOULDING MACHINE
ACCUMULATOR HEAD TYPE
for 3 / 5 Gallon Water Bottle



Extrusion Excellence

Extruder

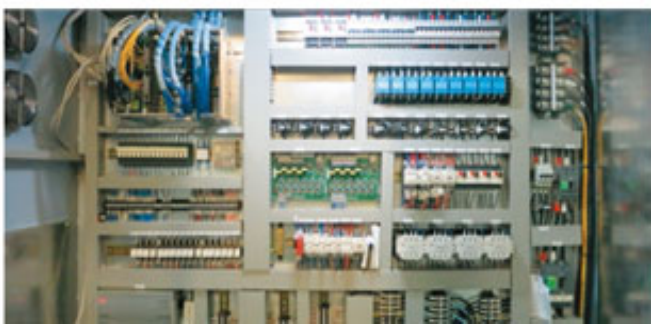
The extruder unit consists of a heated and cooled screw and barrel assembly driven by a double reduction helical gear box connected by V-belts to a variable speed AC motor with vector inverter control.

The main frame is the foundation for the extruder height adjustment and die head centering position. Both independent hydraulic systems are installed. The control cabinet houses the "Maco" modules and the power supply are installed in the main frame.



Electrical panel

Neat and numbered wiring connection provides maximum convenience for maintenance and service.



Accumulator die head

3 liter capacity 2.1 kg shot weight

Spiral channel design, with surface made of treated tungsten steel for high friction resistance. Parison is controlled by servo valve with 100 point MACO 6000 programmer to obtain even wall thickness.





Hydraulic unit

High & low pressure types & nitrogen accumulator for energy saving system

Incorporated with high precision hydraulic valves and components, such as logic valve, servo valve and directional valve to control the material storage, material injection, mould opening and closing, and parison wall thickness, for outstanding accuracy, smoothness, speed and stability for the entire production process.

Clamping unit and blowing pin

The tiebarless clamping unit provides easy access and versatility for a large variety of moulds and applications. Mould clamping by hydraulic cylinder fix on center position and entire unit moved on linear guide rails, to ensure perfect mould closing movement.

The entire unit can move on rails by means of hydraulic cylinder out from the die head for mould change by crane or fork lift, making it more convenient for the operator to do the mould installation.



Multi Micro Processor Control System

- 100 point parison profile control
- Parison push out profile velocity control
- Displays actual tooling position profile and parison set profile on the same screen, for ease of tracing the tooling position against the profile set point.
- Automatic tuning heat/cool temperature.
- Internal cartridge recipe storage.
- Precise hydraulic clamp control.
- programmable screen display.
- Statistical process control (optional)
- Provides constant, uniform wall thickness and parison length.
- Available with communication link for total plant and, wide integrated manufacturing.
- Various parison interpolation methods such as flat, linear, and hyperbolic.
- Tooling position adjusted evenly every 100 microseconds to ensure uniform, high tolerance parts.
- The machine safety gate is fitted with hydraulic, pneumatic, and electrical safety interlocks.



Technical Data

Model	Unit	FK/ABI-100-PC
Products Volume	Gallon	3 & 5 & 6

Extruder

Screw Diameter	mm	100
Screw L/D		24
Main Drive	HP	100
Extrusion Capacity	Kg / hr	300
Barrel Cooling	HP	1/2 x 4
Heating Zone		4
Barrel Heating Capacity	kW	28

Accumulator head: four spiral flow channel design

Accumulator Capacity	Liter/Kg	3 / 2
Heating Zone		5
Heating Capacity	kW	24
Die Lip Diameter (Max).	mm	190

One size provided as standard

Clamping unit: Tie-barless & free access for mold in/out

Series		BT7085
Clamping Force	ton	35
Clamping Distance	mm	394 - 1164
Mould Platen (Height)	mm	700
Mould Platen (Width)	mm	850
Mould Clamping Thickness	mm	410 - 630

Hydraulic unit: High & low pressure circuit with nitrogen accumulator for energy saving

Pump Drive / Cooling	HP	15 + 7.5
Clamping Pressure (Max.)	kg/cm ²	180
Injection Pressure (Max.)	kg/cm ²	160

Utilities

Air Consumption	m ³ /hr	60 - 100
Air Pressure	Kg/cm ²	8 / 16
Total Power Consumption	kW	240
Average Power Consumption	kW/hr	100
Space for Machine (LxWxH)	m	8 x 5 x 5

Other attachments

Mold temperature controllers, product take out device, and spare parts.

All specifications, design and characteristics shown above are subject to change without prior notice.

Option

- For energy saving ceramic heaters can be used for barrel and die head.
- Insulation jacket can be also added as well as safety protection.
- Safety protection.
- Dehumidifying System / Autoloaders / Dosers / Crusher / Powder Filter.
- High & Low pressure air compressor.

®



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