

The rapid development of PET bottled water

Higher and higher requirements for energy conservation and discharge reduction

Huge pressure of market competition; high demand of cost control

The gradual popularization of the concept of sustainable developmen and "green" factory

- The production efficiency of Tech-Long's whole line is not less than 99.5%, thus ensuring the maximum of income.
- >At present, Tech-Long is one of the few company with the R & D capacity of injection molding, bottle blowing and filling in the world.
- The ability to design preforms and bottle shapes
- Tech-Long has the most leading R & D design platform and laboratory equipment in the industry at present
- optimized options to customers

TECH-LONG

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For more detailed information on Tech-Long products, please visit our website at: www.tech-long.com

Tech-Long keeps working on further development of our products. Thus, for the latest infromation, please contact our sales representatives. Although information in this brochure has been updated many sed for reference purpose only. Please take the practical machines, nameplate, and operation specification as standard



ULTRA HYGIENIC BLOW-FILL-CAP(BFC)

TECH-LONG

BLOWING-FILLING-CAPPING **COMBI-BLOCK**

Easy manipulation Less maintenance

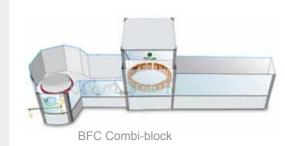
Cost



Correlation data

Enhancing the overall efficiency by 5% (The efficiency of the BFC Combi-block now reaches 98%)	R o
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Reducing the investment in equipment by 10-20% (it is	W
unnecessary to equip air conveyor and bottle rinser)	

Reducing the investment in plant by 65% (The coverage area of the equipment is reduced greatly)



Note: The above-mentioned data are the contrast between BFC Combi-block and the traditional "bottle blowing machine + filling machine" Calculation conditions: 500-ml bottled water line; 30000 BPH; varying with different products.

High efficiency of the whole line Low investment in equipment Low investment in the plant Low operation cost

Reliability

- Hygienic, safe and reliable
- Improved mechanical safety



Reducing the energy consumption by 15-20% (fewer operators; lower start-up wastage; no energy consumption for air conveyor or bottle-jamming waste)

Reducing the amount of pure-water used by about 35% (it is unnecessary to wash bottles with water)





traditional "bottle-blowing machine + filling machine"



TECHNICAL GUARANTEE

Filling products:	fruit juice, tea drinks, drinking water, etc
Electrical conductivity of products:	5 mu S/cm or more, water (20 mu S/cm or higher)
Applicable bottle type:	PET bottle or round bottles
Applicable cover type:	thread the plastic cover
Rated output:	40000 BPH (500 ml)
Cavity number:	20
Filling Numbers:	72
Screw LIDS:	18
Heating chain pitch:	38.1 mm
Light box number:	18 group
Heating tubes, total power of	369 kw
Biggest diameter bottle blowing bottles:	Φ 120 mm or less
Maximum filling bottle diameter bottle (or diagonal) :	Φ 108 mm or less
Biggest bottle high:	350 mm or less
Filling temperature:	95 °C or less
Filling accuracy:	0.3%



ech-Long is one of the few suppliers in the world that have astered such two key technologies of PET bottle-blowing and filling. Based on its substantial whole-line project and "filling technology" is the fundamental guarantee for the equipment technology of BFC Combi-block. hrough innovation of the online molding, bottle-blowing echnology, filling and filling equipment, it can reduce the energy consumption of complete machines by over 25%, fill dvanced level.

Safe Healthy Environment

Adopts quantitative filling flow meter method, filling process intelligent control;

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- Use cologne (KROHNE) electromagnetic
- Adopts cover pneumatic double diaphragm valve control filling speed, realize how irrigation, make filling more stable, less bubble;
- Using non-contact filling, filling process and health;
- Patented technology of ceramic type filling
- Contact with the fluid part of the material 316 l;

- Configure automatic cup;
- Tilting chassis automatic ability;
- filling environment;
- Bottle shape a quick change;
- Screw cover machine can apply to a variety of cover type, need to change electric parameter Settings;
- Every lower part of the star wheel equipped with of personnel and equipment;

High Speed and Low Energy Consumption

The single mode output - 2000 BPH

ADVANTAGES OF

BLOW MACHINE

- Modular design improve the versatility and standardization



- The high pressure gas recovery system reduce consumption of compressed air