



广州达意隆包装机械股份有限公司
Tech-Long Packaging Machinery Ltd

如欲了解更多达意隆产品，欢迎访问我们的网站
For more detailed information on Tech-Long products, please visit our website at:

www.tech-long.com.

本资料的内容会因产品更新而变化，欲了解详情，请与我们的销售人员联系。
本资料虽然经过多次校对，以求准确，但仅供参考使用。
一切以实物及产品铭牌和说明书为准。

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

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TECH-LONG

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Bottle BFC Combi-block

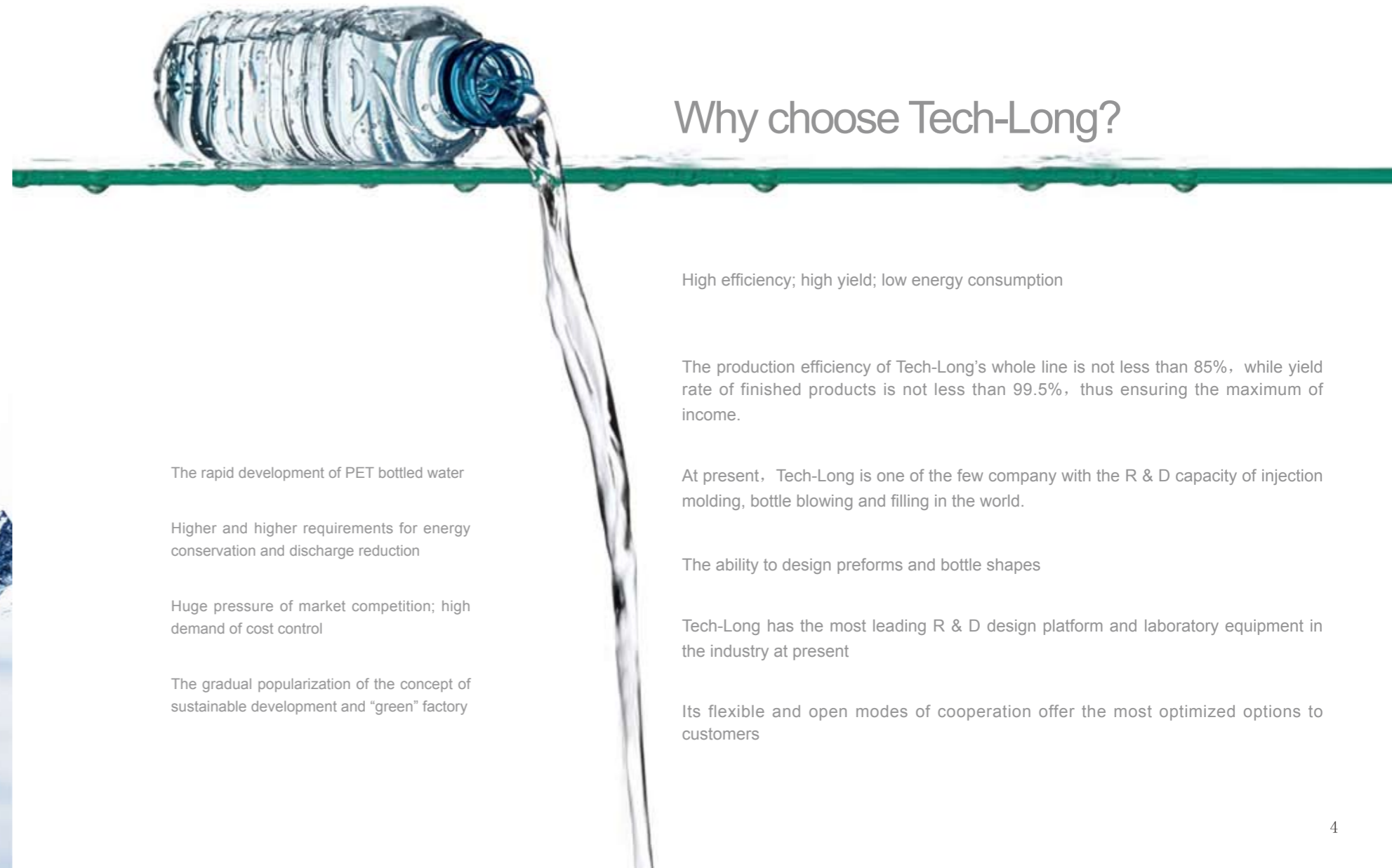


低碳时代，我们先行

Low carbon era, we advance ahead

达意隆饮料用环保超轻量瓶震撼上市！

Beverage in environment-protection Light weight bottles from Tech-Long launched into market !



Why choose Tech-Long?

High efficiency; high yield; low energy consumption

The production efficiency of Tech-Long's whole line is not less than 85%, while yield rate of finished products 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

Its flexible and open modes of cooperation offer the most optimized options to customers

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 development and "green" factory

吹灌旋一体机

Blowing-Filling-Capping Combi-block

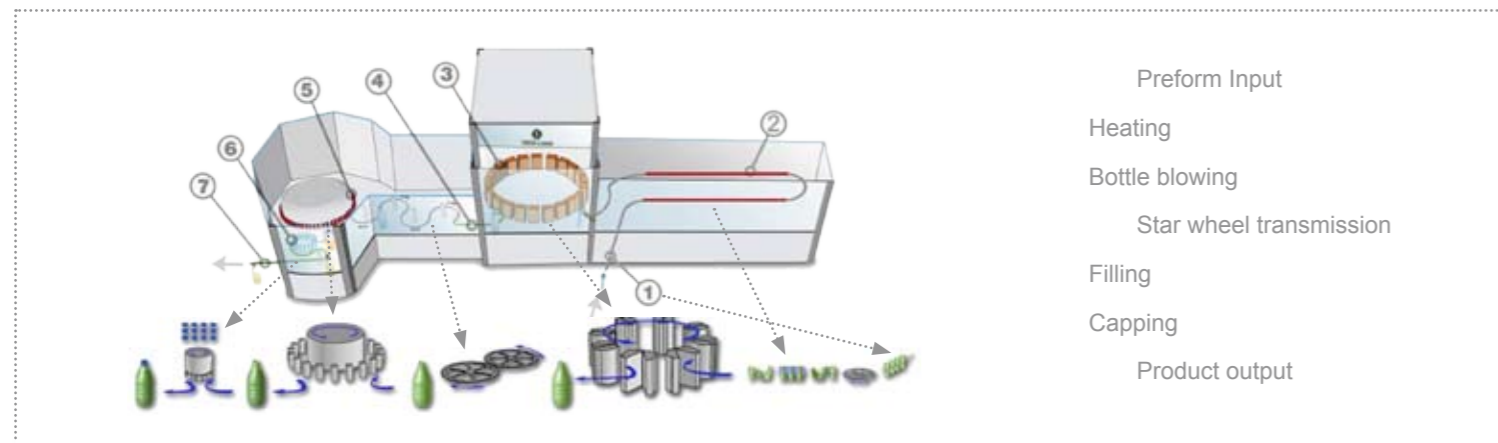
单台设备完成吹瓶、灌装、旋盖整个动作

A single unit of equipment can complete all processes including bottle blowing, filling and capping



瓶坯 瓶装液态产品

The innovative packing technology with a single unit machine to complete the whole process from preform to bottled liquid products



吹灌旋一体机

Blowing-Filling-Capping Combi-block

Technical parameters

Filling stuff: water, fruit juice, tea drinks, functional drinks, carbonated drinks

Packing: PET bottle

Volume: from 250 to 2500 ml

Bottle shapes: circular, square or rectangular

Capacity (bottles/hour): 6,000–43,200

Filling technology: isobaric filling; negative pressure filling, pressure filling; gravity filling

The number of bottle-blowing molding cavity: 6–24

The number of filling valves: 24–90

The number of capping heads: 6–18

Technical guarantee

Tech-Long is one of the few suppliers in the world that have mastered such two key technologies of PET bottle-blowing and filling. Based on its substantial whole-line project experience, integration of “bottle-blowing technology” and “filling technology” is the fundamental guarantee for the equipment technology of BFC Combi-block. Through innovation of the online molding, bottle-blowing technology, filling and filling equipment, it can reduce the energy consumption of complete machines by over 25%, fill a vacancy in the industry in China and reach the international advanced level.

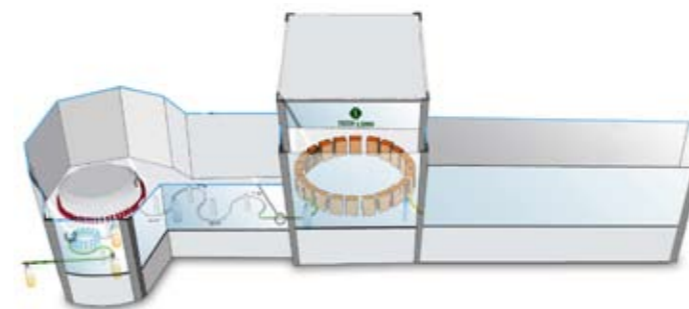
吹灌旋一体机

Blowing-Filling-Capping Combi-block

吹灌旋一体机与传统“吹瓶机+灌装机”对比

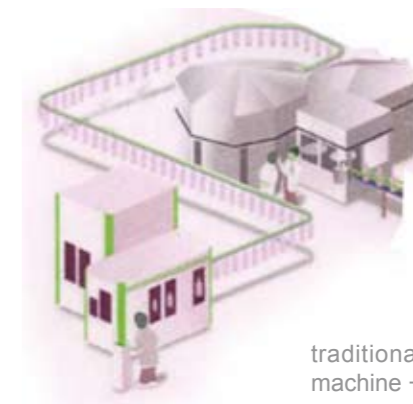
The contrast between the BFC Combi-block and the traditional “bottle-blowing machine + filling machine”

The advantages of bottle BFC Combi-block



BFC Combi-block

VS



traditional “bottle-blowing machine + filling machine”

对比数据 Correlation data

- Enhancing the overall efficiency by 5% (The efficiency of the BFC Combi-block now reaches 98%)
- Reducing the investment in equipment by 10-20% (it is unnecessary to equip air conveyor and bottle rinser)
- Reducing the investment in plant by 65% (The coverage area of the equipment is reduced greatly)

- 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)

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.

轻量化吹灌旋一体机

Light bottle blowing-filling-capping Combi-block

The light-weight bottling coincides with the theme of global low-carbon economy. Compared with traditional beverage equipment, Light bottle BFC Combi-block has such advantages as high efficiency, low cost and low energy consumption. Replacing the traditional production technology marked by the separation of bottle-blowing, filling and capping machines with the Light bottle BFC Combi-block will be the trend in the industry.

Reducing the gram weight of preforms completely

Reducing the thickness of bottle wall

Optimizing the heating system of preforms

Developing new-type bottle-clipping devices and filling valves to realize the filling of light-weight bottles

Adopting a brand-new cap-sorting system, accompanied with a detecting device with the function of automatic rejection

轻量化吹灌旋一体机

Light bottle blowing-filling-capping Combi-block

PET light-weight bottles

The brand-new design of bottle and cap shapes-extra-light gram weight of bottles

15g-19g The current weight of 550ml PET bottles: 15g-19g

9.8g-11.8g The weight of 550ml PET light-weight bottles: 9.8g-11.8g

1g The weight of new 26mm light-weight caps: 1g

A brand-new design of preforms

2g Extra-light weight of bottle neck: 2g

26mm Innovative design of small bottle neck: 26mm

1.2mm Extra-thin support ring design: 1.2mm

Blowing/filling/ capping technology

Saving water, power, and the area of plant

Injecting nitrogen to guarantee the strength of bottles

轻量化吹灌旋一体机

Light bottle blowing-filling-capping Combi-block

Innovative points

The special design of light-weight bottles; the gram weight of 550ml bottles is only 9.8g-11.8g

High-speed integration of blowing, filling and capping

-

The maximum capacity: 43200 BPH (Volumes≤750 ml water bottles)

-

Synchronously driven by dual variable frequency motor (bottle blowing machine + filling machine)

The highly-efficient infrared spectrum absorption heating method; the high-density 38mm arrangement heating of bottle blanks; four-section three-variable optimized control heating system

Optimized cam curve design, stable and highly-efficient bottle-blowing technology, small-size mould, optimized die carrier, bottle neck protection and optimization design, bottle blank electrostatic precipitation

High-speed gravity filling and filling valve optimization design, high-speed accurate filling liquid level control, injecting a certain amount of liquid nitrogen

High-speed bottle-blowing defect (bottle neck damage, broken bottle, and improper molding) image detection, bottle capping and sealing quality high-speed image recognition and detection, transparent liquid foreign-matter high-speed image recognition and detection



还原绿色的地球
Rebuild the Green Earth