



TECH-LONG





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In new industrial age, the deeply integration between information technology and manufacturing induced an utterly industry reform, which brought new method of production, industrial appearance, business model and new economic growth pole. No matter mass production manufacturers or those small, flexible and customized enterprises, all have to apply automation applications. Meanwhile, as the market change, every enterprise needs to improve its productivity, so as to deliver the new and high quality customized products to customer in shorter time.

Since the foundation in 1999, Tech-Long always serves customers with the principle of "Runs for you" and has accumulated plenty application experience by providing service to the end users or integrators. Confronting more critical production requirements, with its fine precise technology and long time engineering experience, Tech-Long established its unbeatable brand "Tech-Long". It provides the intelligent solution to cover all lifetime of factory, which perfectly meets the demands of factory management. In automation age, Tech-Long will use its best way to provide solution with thinking your future.

Runs for you

Guangzhou Tech-Long Packaging Machinery Co., Ltd. (hereinafter referred to as "Tech-Long") located in the most active area in Guangzhou - Guangzhou Economic and Technological Development Zone. With the belief of "Runs for You", all the way from its foundation in 1999, Tech-Long became the first public listed company in beverage packaging industry and then became one of the leading enterprises in liquid packaging machinery. Tech-Long focuses on developing and manufacturing high speed automatic beverage production line and is able to provide turnkey solution for global liquid product manufacturers.

Tech-Long owns 8 subsidiaries such as Dongguang Tech-Long Water Treatment Technology Co., Ltd., Dongguang Baolong Packaging Technology Development Co., Ltd., Shenzhen Tech-Long Packaging Technology Co., Ltd., Techlong Inc., Hefei

Tech-Long Packaging Technology Co., Ltd., Xinjiang Baolong Packaging Technology Development Co., Ltd. Tianjin Baolong Packaging Technology Development Co., Ltd, Zhuhai Baolong Preform Co., Ltd. and 2 joint venture companies, such as UNIQUE Injection Molding System Co., Ltd., Guangzhou yidai Finance Information service Co., Ltd. Tech-Long's service network covers almost 50 countries and area and its products covers from the beginning to the end in this industry.

For years, with its advantages on liquid packaging system, Tech-Long understands every process in packaging system. With Tech-Long's technology strength, it developed automatic solution for beverage industry. With the upcoming new industry revolution, Tech-Long will change its methods of production, and build up automation system, to provide your best solution with thinking your future.

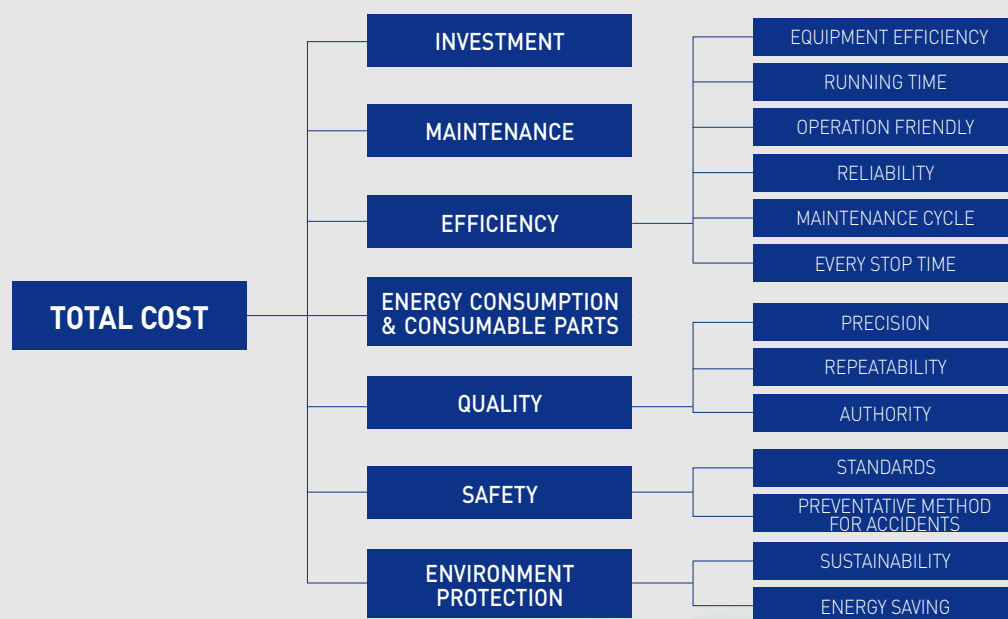


Company Introduction

An enterprise is an integration of design, production, marketing delivery and every auxiliary process to products. All these factors build up the value chain of an enterprise.

In manufacturing value chain, Tech-Long understands every process in packaging system. With its advantages in packaging system, Tech-Long is devoted to extend its value to storage, logistics and assembly to provide one stop service for customers.

For the point view of customer, we considers as many important factors in products' lifetime as we can. We apply these factors as our standard to pursue the best quality in production.



Excellent R&D Capability

Tech-Long is one of the 1100 National R&D Centers in China as well as the first listed company with national-standard R&D center in packaging machine industry. Tech-Long is also national torch program high-tech enterprise, leading enterprise in packaging industry, and military industry and naval architecture capability enterprise.

- More than **340** R&D technicians
- **2000** square meter's **National R & D Center**
- **3-5** new products annually
- Till now, total applied more than **700** patents, authorized **400**
- Tech-Long owns the only one PET products lab, and it is several national standards' drafter. Tech-Long drafted 10 industry standards and **13** national standards.
- Four national high tech products:
RJM fully automatic PET blow molding machine, CPXX fully automatic high speed blow molding machine, fully automatic light weight bottle blowing-filling-capping monobloc and high viscosity filling-capping monobloc
- Innovation on five national high tech products:
Fully automatic soy sauce filling machine, tea/juice hot filling line, CSD filling machine, PET bottle beverage hot filling line, PET high speed rotary blow molding machine

All lifetime: Design, Process, Manufacturing, Assembly, Service



Advantages

Excellent Quality Control and Inspection System

In order to improve the product quality and efficiency, Tech-Long invested a lot on technology development, machining equipment, and inspection equipment. Tech-Long set up machining department in 2006, quality inspection center in 2008, which provides solid base for product quality. Meanwhile, Tech-Long thinks high of equipment and food safety, Tech-Long has passed the CE certificate, UL certificate and ISO9001 standard.

For 17 years, Tech-Long focus on the product quality, which made machining and quality control became one of the key competitiveness.

1 Digital Projector

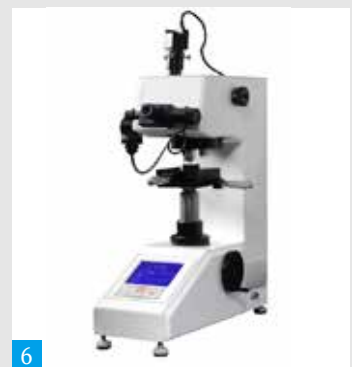
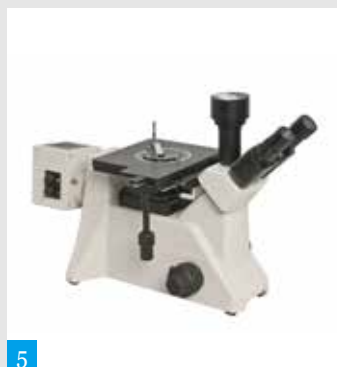
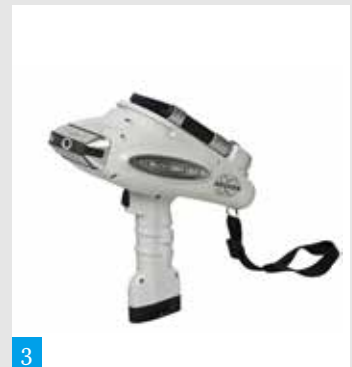
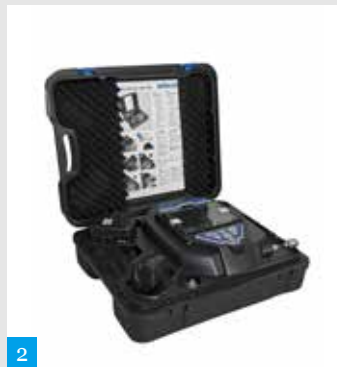
4 Ultrasonic Flaw Detector

2 Endoscope Mirror

5 Metallurgical Microscope

3 Portable Spectrum Analyzer

6 Vickers Hardness Tester



Machining and Assembling

In order to improve the machining capability, Tech-Long contentiously invests in digital and automatic processing equipment. Since 2005, Tech-Long has purchased almost every 10 processing equipment per year. Till now there are more than 260 processing equipment, 40 fine digital machining equipment, more than 170 professional operators and 30 senior technicians.

Machining Equipment List

- Vertical Lathe
(5m, 3.5m, 2.5m, 1.6m)
- Large Digital Control Boring and Milling Equipment
(Mitsubishi Pentahedron Gantry Type Machining Center, Qiqihar No.2 CNC floor milling-boring machine, KIA CNC horizontal boring and milling machining center, Gantry machining center)
- Vertical and Horizontal Machining Center
(Mazak gantry, KIA horizontal boring and milling, Mazak horizontal, YCM vertical, Hurco vertical, Neway CNC, etc, machining center)
- CNC Turning Center
(Mazak turning center, Victor Taichung Horizontal CNC lathe, KIA CNC lathe)

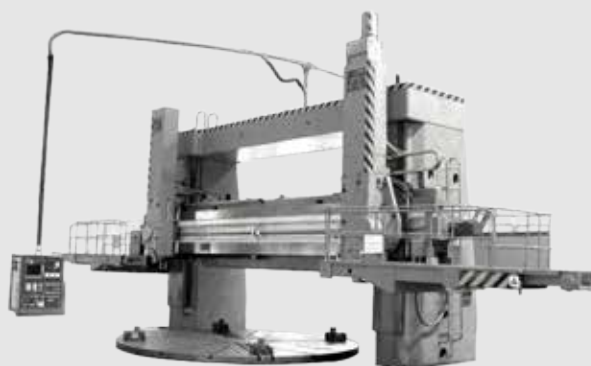
- The Other CNC and Precision Equipment
(Mazak Laser cutting machine, Mitsubishi Two-dimensional laser cutting machine, Flow water jet cutting machine, etc)



MV R45 Gantry 5 Sides Machining Center



TK6916/L80 Digital Control Floor Milling-Boring



5 Meter Digital Control Vertical Lathe CKJQ5350B

Advantages

Service Value

Pre-sale Consultation

According to your requirements, Tech-Long provides free proper line layout or process flow chart. It will bring you the most economic and efficient plant layout.

Technical Support or Guidance

Senior technician will be on site to provide theoretic guidance or training till the operators are approved. What is more, we will provide 7 days free guidance even the line is accepted.

After-Sale Service System

The whole engineering department divides into several teams. Each team focus on its own territory, which provide professional and fast reaction for customer.

Spare Parts Service

Tech-Long stores over USD 5million spare parts in warehouse and built up spare parts center in north America, Middle East, etc., which provides fast reaction for spare parts requirements.

Training Center

Tech-Long provides training for customers and further training for Tech-Long employees. It is a base to raise talent persons in this industry.

Customized Training

Tech-Long provides training customers in its own beverage plant. It shortens customers' running-in time with equipment.

Marketing Guidance

Professional marketing planning partners provides feasibility report for plant managing and products selling.

We are loyal to our promise to service, quality and innovation. Not only in technology we pursue perfection, but also in building our high quality service.

With several years project experience and marketing focus, Tech-Long knows every challenge in liquid packaging industry. We can overcome these challenges together with you. No matter the challenges from equipment, or products, or even profitability of your company, Tech-Long will provide solution from every aspect, what you get is more than what you pay.

Collaboration with Well-known Components Supplier

Long time collaboration with well-know components suppliers like ABB, KUKA, KSS, SMC, AIR TAC.

Long Time Engineering Experience

Tech-Long has plenty of turnkey line projects both in China and oversea, and provided more than 500 complete turnkey line projects for more than 40 companies in the world. Tech-Long is one of the rare supplier providing solution from PET resin to complete package. With years engineering experience accumulation, Tech-Long has plenty experience in serving the end users and integrators. With our strong service system to help customer realize high efficiency and high flexibility.



Honors

In Tech-Long, it owns the only national level R&D center in this industry. It is the key high-tech enterprise in "national torch program". It is the leading enterprise in China packaging industry. And it is the only company who has military industry and naval architecture capability in this industry.



In the road of innovation, Tech-Long has a lot of achievements.

- **Tech-Long is awarded the only one National-Level-Enterprise Technical Center in packaging industry.**
- In 2012, Tech-Long set up beverage packaging complete equipment national and local engineering research center and Post-Doctoral Science Work Station in this industry.
- Tech-Long owns more than **700** patents, and more than **400** patents have been authorized. It has 100 invention patents, and **290** innovation patents have been authorized. Tech-Long has 1 international patent.
- Rotary blow molding machine is one program of national torch program
- Filling machine is one program of national torch program
- Four national high tech products:
RJM fully automatic PET blow molding machine, CPXX fully automatic high speed blow molding machine, fully automatic light weight bottle blowing-filling-capping monobloc and high viscosity filling-capping monobloc
- Innovation on five national high tech products:
Fully automatic soy sauce filling machine, tea/juice hot filling line, CSD filling machine, PET bottle beverage hot filling line, PET high speed rotary blow molding machine;
- Independently drafted **10** industrial standard, drafted **13** national standards as the leading position.



Tech-Long's Customers

International Brands

Beverage

Coca Cola, Pepsi Cola, Nestle, Danone, Big Cola, Sab Miller etc.

Non-Beverage

P&G, Unilever, Huy fong, Yihai Kerry, Heinz, Inbev, Carlsberg, Heineken etc.



Oversea Regional Brands

Beverage

Saudi Arabia Tania, Dala, Hilwa, Fayha, Oasis,
Bangladesh pran, Ethiopia origin, Yes, Algeria RAMY,
Indonesia SOSRO, Aqua, Tamobel, Indofood Asahi,
India Bisleri, Vietnam THP, Oman Oasia, Russia
меркурий

Non-Beverage

UK SAB Miller, India Adani Wilmar, Indonesia Best
Group



Tech-Long's Customers

Domestic Brands

Beverage

C'estbon, Wahaha, Nongfu spring, Robust, Lansong, Ganten, Runtian, Laoshan, Health, Anhui YeLing, Huangshan Wujixue, Zhejiang Happy wood, Gutianshan, Huanshanquan, Guangdong Litai, Emeishan Xinfu, Sichuan Amaning, Blus sword drink & food, Suoer Source, Xiaomaixiangyuan, Bama spring, Xinjiang Xuebaizhen, Pulisi, Watson, Hey Song, Uni-President, Dali Foods Group, Yinlu, Coconut palm, Tenwow Group, zijiang, Eastroc Super Drink, Lameizi, Jiulongzhai, Beiqi, Dongyitang, Leyuan, W Food & beverage, Real Nutraceutical, Chongqing Qishuang, Huatong Limon, Daqing Yuerang, Jinnailang, Mingren Food



Non-Beverage

Lonkey, Bluemoon, Longrich, Haolai, Ecolab, Luhua, Haday, Shinho, Meiweixian, Donggu, Jiajia, Laocaichen, Fortune Food, Tianjing Limin, Yanjing Beer, Pearl river Beer, Tsingtao Beer, Gree



CHANGING THE METHODS OF PRODUCTION,



Tech-Long is devoted to meet the dynamic requirements in global packaging industry.

OPENING UP A NEW AUTOMATION AGE.



No matter what you want to achieve in this industry, Tech-Long will try best to make it!

For years, Tech-Long keeps listening to customer's demands and innovating with market orientation. Now Tech-Long has developed the complete production line, including water treatment system, beverage treatment system, blow molding machine, filling machine, blowing-filling-capping monobloc, conveying system, labeling secondary packaging etc. Tech-Long has provided complete package solutions for many domestic and oversea companies.

Recent years, in order to continuously meet the market requirement, Tech-Long keeps enlarging its products serials, and extends its automation system. Tech-Long has provided automation solution for many companies.

Water Treatment System

The process of water treatment system is decided by raw water quality and purpose water to be used. Basically, there are three different stages for water treatment, which are pre-treatment, deep treatment, and terminal treatment.

Pre-treatment: multi-media filter, carbon filter, softener, filter to remove iron and manganese, filter to remove fluorine, ultra filter, micro filter etc

Deep treatment: applying membrane or ion exchanging to do treatment

Terminal treatment: ozone, UV, polisher, EDI or CDI etc.





Application Range

- Beverage and food industrial water, drinking purified water, mineral water, spring water, beer, wine, medical water etc.
- Salt water and sea water desalting
- Rinsing water for electronic parts, integrated circuit, silicon wafer, screen etc.
- Electrical/chemical boiler water making up, boilers water making up for energy plant or mine
- Daily chemical water, medical water and other sterile water
- Waste water and normal water recycle-recycle the useful matters in industrial water
- Direct drinking water
- Other water related treatment system

Beverage Treatment System

Beverage treat system is applied widely in hot filling beverage or csd beverage. Tech-Long beverage treatment system applies professional process design, high quality hygienic piping and valves, fine control meters and electrical parts etc.



Hot water system	Supply hot water to sugar dissolving, tea extracting, juice, ingredient, milk restoration etc.
Sugar dissolving system	Use good quality sugar to dissolve in certain hot water to make syrup, after hot preservation, pasteurization, filtration, and cooling down, then store to use.
Ingredient system	Supply restored juice, stabilizing agent etc.
Batching System	To pump syrup, other main material and ingredient, juice, RO water basing on certain ratio and certain order. Mixing all the materials in batching tank to make the liquid even, check sample, stew, and then go to next step.
CIP system	CIP system is designed to clean and sanitize. It is a necessary system in food production. Use alkali and acid as the media, under the effect of heat exchanger to clean all the valves, tanks, pipes etc. So as to reach the safety standard.
Extracting System	To put tea or Chinese medicine into a basket, tank bottom or rotate tank, and then add hot water, after filtration and cooling to batching tanks.
All kinds of tank, valves, and piping.	

Application Range

Apply in beverage, daily chemical and food industries



Pasteurizer-Core Equipment In Hot And Ambient Filling Treatment

Pasteurizer is used to kill the microorganism which will cause rancidness. It keeps the original flavor of product in a great degree and also the nutrient content. The strict treatment process and accurate treatment method prevent the secondary contamination of the products, which extends the shelf life of products.

Tech-Long Pasteurizer applies high efficient heat exchanging corrugated pipe, with fine manufacturing parts and proper process. It saves a lot for customer.



Mixer-Core Equipment In Cold Filling Treatment

Mixer can be categorized as mechanical type and metering type. It is used to mix the batching syrup and de-aerated water at a certain rate, cool down the beverage, add CO₂ and then to make even and stable carbonated drinks.

Tech-Long metering type mixer developed is first developed in China.

Blow Molding Machine

Tech-Long PET fully automatic rotary blow molding machine is the first high speed fully automatic blow molding machine in China. As the key program in national program called "Torch Program", it filled the gap of domestic high speed blow molding machine.

For many years, Tech-Long's technology in blow molding machine has reached the leading position in this industry. The features of Tech-Long blow molding machine is automated, intelligent, efficient, stable, low cost, no intermediate contamination etc.

Application: PET bottles for beverage, milk products, edible oil, food, medicine, cosmetics, detergent etc.

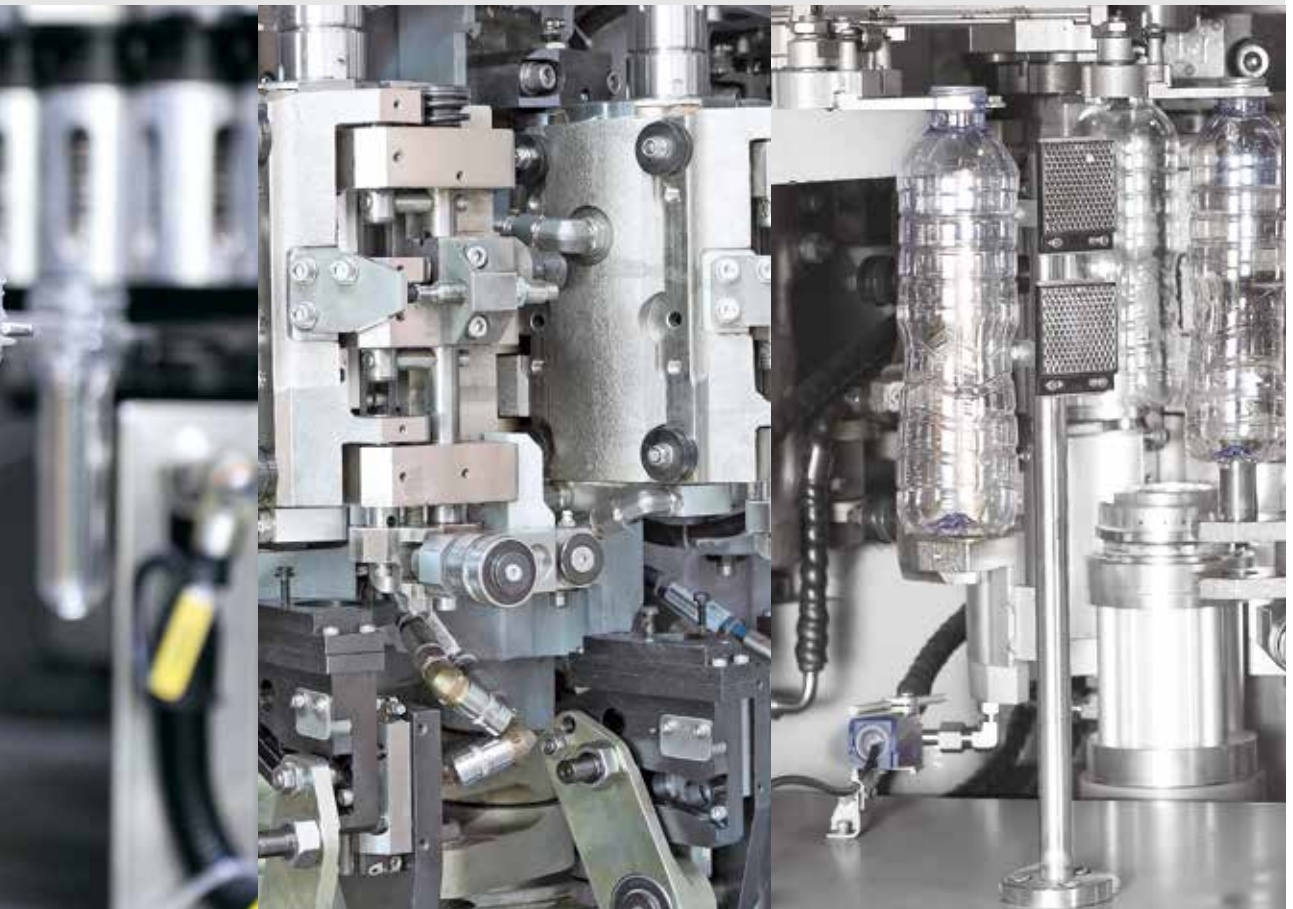


Varieties

- **Standard Shell Size**(Bottle Size 0.25-2.5L)
- **Large Shell Size**(Bottle Size 0.25-3.3L)
- **Square Mold**(Bottle Size:0.25-3L)
- **Extra Large Shell Size**(Bottle Volume 4-10L)
- **Single Serve**(Bottle Volume Less Than 0.75L)
- **Shape Bottle**(Bottle Size:0.25-2L)

Single Cavity Speed

- **Water Bottle**-2250-2400BPH(\leq 0.6L)
- **Hot Filling Bottle**-1600BPH(\leq 0.6L)
- **Csd Bottle**-2000BPH(\leq 0.6L)
- **Shape Bottle**-2000BPH(\leq 0.6L)



Blow Molding Machine

SERIES	MODEL	CAVITIES	CAPACITY(BPCH)			MAXIMUM BOTTLE SIZE	APPLICATION RANGE
			WATER BOTTLE	CSD BOTTLE	HOT FILLING BOTTLE		
Standard Shell Size	CPX4	4	9600	8000	4800-7200	2.5L	Water Beverage Milk And Dairy Edible Oil Food Medical Products Cosmetics Detergent Bottles and So On
	CPX6	6	14400	12000	7200-10800		
	CPX8	8	19200	16000	9600-14400		
	CPX10	10	24000	20000	12000-18000		
	CPX12	12	28800	24000	14400-21600		
	CPX14	14	33600	28000	16800-25200		
	CPX16	16	36000	32000	19200-28800		
	CPX18	18	40500	36000	21600-32400		
	CPX20	20	45000	40000	24000-36000		
	CPX22	22	49500	44000	26400-39600		
	CPX24	24	54000	48000	28800-43200		
CPX26	26	58500	52000	31200-46800			
Large Shell Size	CPXM4A	4	6400	6400	4000-6000	3.3L	Water Bottles and Csd Bottles Less Than 3.3L.
	CPXM6A	6	9600	9600	6000-9000		
	CPXM8A	8	12800	12800	8000-12000		
	CPXM10A	10	16000	16000	10000-15000		
	CPXM12A	12	19200	19200	12000-18000		
	CPXM14A	14	22400	22400	14000-21000		
	CPXM16A	16	25600	25600	16000-24000		
	CPXM18A	18	28800	28800	18000-27000		
	CPXM20A	20	32000	32000	20000-30000		
	CPXM22A	22	35200	35200	22000-33000		
	CPXM24A	24	38400	38400	24000-36000		
CPXM26A	26	41600	41600	26000-39000			
Square Mold	CPXF4A	4	6400	6400	4000-6000	3L	Water Bottles And Juice Bottles Round 2.5L-3L, Bottle With Hand Around 2L
	CPXF6A	6	9600	9600	6000-9000		
	CPXF8A	8	12800	12800	8000-12000		
	CPXF10A	10	16000	16000	10000-15000		
	CPXF12A	12	19200	19200	12000-18000		
	CPXF14A	14	22400	22400	14000-21000		
	CPXF16A	16	25600	25800	16000-24000		
	CPXF18A	18	28800	28800	18000-27000		
	CPXF20A	20	32000	32000	20000-30000		
	CPXF22A	22	35200	35200	22000-33000		
	CPXF24A	24	38400	38400	24000-36000		
CPXF26A	26	41600	41600	26000-39000			

SERIES	MODEL	NUMBER OF MOLD CAVITIES	CAPACITY		MAXIMUM BOTTLE SIZE	APPLICATION RANGE
			WATER BOTTLE	CSD BOTTLE		
Single Serve	CPXX16A	16	38400	32000	0.77L	Water, Beverage, Milk and Dairy, Edible Oil, Food, Medical Products, Cosmetics, Detergent Bottles and So On.
	CPXX18A	18	43200	36000		
	CPXX20A	20	48000	40000		
	CPXX22A	22	49500	44000		
	CPXX24A	24	54000	48000		
	CPXX26A	26	58500	52000		
	CPXX28A	28	63000	56000		
	CPXX30A	30	67500	60000		
	CPXX32A	32	72000	64000		
	CPXX34A	34	76500	68000		
			81000	72000		
			WATER BOTTLE(4-6L)	Oil Bottle(10L)		
Extra Large Shell Size	RJM2A	2	2000	1200	Φ200x410 4-10L	Water Bottles, Beverage Bottles, Edible Oil Bottle and So On.
	CPXD4	4	5600	3000		
	CPXD6	6	8400	4500		
	CPXD8	8	11200	6000		
	CPXD10	10	14000	7500		
SERIES	MODEL	NUMBER OF MOLD CAVITIES	BOTTLE SIZE(≤600ml)		MAXIMUM BOTTLE SIZE	APPLICATION RANGE
			CAPACITY			
Shape Bottle	CPX4T	4	8000		2L	Beverage Milk and Milk Based Products, Edible Oil, Food, Medicine, Cosmetics, Detergent
	CPX6T	6	12000			
	CPX8T	8	16000			
	CPX10T	10	20000			
	CPX12T	12	24000			
	CPX14T	14	28000			
	CPX16T	16	32000			
	CPX18T	18	36000			
	CPX20T	20	40000			
	CPX22T	22	44000			
	CPX24T	24	48000			
	CPX26T	26	52000			

Filling Machine

Filling machine is an equipment that fills liquid into clean containers under clean conditions and seals the containers with caps.

How to be more hygienic? How to preserve flavor and texture? How to attract customer with innovative packaging? In a summary, all these thoughts composed your standards to choose machine.

The combination of various products and packaging formats demands multiple requirements for filling machine. For different filling process, different filling methods and different hygienic standards, Tech-Long provides solutions to meet various requirements.



Applicable Containers

■ Containers Material

PET, Glass, Metal, PP, PE, HDPE

■ Containers conveying

Neck Hanging, Neck Clamping, Bottom Loaded

■ Containers Shape

Square Bottle, Round Bottle, Shape Bottle

■ Containers Size

Variable Heights, Variable Cross-Sections

Applicable Products

■ Beverage(Water, Pulp Juice, Juice, Csd Drinks, Liquor...)

■ Non-Beverage(Daily Chemical, Condiment, Edible Oil)

Filling Methods

■ Volumetric Filling Method

Mechanical Valve, Vacuum Auxiliaries, Mass Flow Meter, Electromagnetic Flow Meter, Electronic Valves, Load Cells...






■ Pressure Method

Gravity, Equal Pressure, Counter Pressure, Positive Pressure...



Filling Machine

	Beverage Filling			Aseptic
	Water Filling	Csd Filling	Hot Filling	Ultra Hygienic -Ambient Filling
Product	Spring Water, Purified Water, Other Drinking Water	Csd, Soda Water, Sparkling Water, Cocktail, Flavored Water	Juice, Tea, Liquid Food, Beverage With Pulp, Energy Drink, Milk Tea, Coffee	Water, Flavored Water, Juice, Beverage With Juice, Carbonated Juice
				
Filling Method	Mechanical Valve Filling, Flow Meter Filling, Electronic Valve Filling, Gravimetric Filling	Mechanical Valve Filling, Flow Meter Filling, Electronic Valve Filling	Mechanical Valve Filling, Flow Meter Filling, Probe Filling, Piston Filling, Peristaltic Pump Filling, Electronic Valve Filling, Gravimetric Filling	Mechanical Valve Filling, Flow Meter Filling, Gravimetric Filling

or Ultra-Hygienic Filling		Non-Beverage Filling		
Ultra Hygienic -Warm Filling	Aseptic Filling	Condiment Filling	Daily Cosmetic Filling	Edible Filling
<p>Juice, Tea, Liquid Food, Diary, Beverage With Pulp, Energy Drink</p>	<p>Fresh Juice, Carbonated Drinks, Juice, Tea, Liquid Food, Flavor Water, Diary Beverage, Energy Drink, Milk Tea, Coffee</p>	<p>Soy Sauce, Cooking Wine, Vinegar, Syrup, Ketchup, Chilly Sauce</p>	<p>Shampoo, Hair Conditioner, Laundry Detergent, Softener Sanitizer, Detergent, Body Wash, Mouth Wash</p>	<p>Edible Oil, Industry Oil</p>
				
<p>Mechanical Valve Filling, Flow Meter Filling, Gravimetric Filling</p>	<p>Flow Meter Filling, Gravimetric Filling</p>	<p>Mechanical Valve Filling, Flow Meter Filling, Gravimetric Filling</p>	<p>Mechanical Valve Filling, Flow Meter Filling Gravimetric Filling</p>	<p>Flow Meter Filling, Gravimetric Filling</p>

Large Container Filling Machine

Since 1991, the first container water developed in Zhuhai, large container package has developed 23 years. The packing type from single to variable. 5 gallon PET bottle, 5L , 12L soft bottles are developed one by one, so as to meet variable markets and customers.

As the development of packing types, the requirements to filling machine is changeable. In order to meet variable packing types, Tech-Long accumulated rich experience in large container filling technology.



Series	Description
3/5 Gallon Filling Machine	Decapper
	Rotary External Washer
	Visual Lamp
	Shrink Tunnel
	Cap Elevator
	Cap Risner
	Bagging Machine
	External Washer-Rinser-Filler-Capper Monobloc
	Rinser
Filler	
One Gallon Filling Machine	Rinser-Filler-Capper Monobloc
	Blower-Filler-Capper Monobloc

Three/ Five Gallon Equipment

Tech-Long 3/5 gallon fully automatic filling machine has the features of outstanding design, simple operation, reliable performance, proper process, and food grade hygienic conditions. It is composed of empty bottle conveyors, pre-rinsier, decapper, external washer, rinser, filler, capper, visual lamp, shrink tunnel bagging machine, products conveyors, and palletiser. It can realize

fully automatic production. The whole process is strictly complied with national hygienic standards and regulations and there is no secondary contamination during the filling process. It is the most reliable, accepted machine for water and beverage companies. 3/5 gallon bottle purified water, spring water etc.



One Gallon Filling Machine

FI Series One Gallon Blower-Filler-Capper Monobloc

This equipment combines blower, filler, capper in one block. It has small footprints, low energy consumption. This equipment complete the whole process from preform to product and has the features of high efficiency, energy saving and hygiene.

Equipment productivity: 2000BPH-6000BPH



F Series Rinser-Filler-Capper Monobloc

F series rinser-filler-capper is the latest developed product for one gallon filling technology. This equipment combines rinser, filler, capper in one block, which keeps the high efficiency and reliable performance. This machine fills one gallon products in hygienic room to complete from empty bottle to products, which ensures the product safety and hygiene.

Equipment productivity: 2000BPH-6000BPH

Blower-Filler-Capper Monobloc

Blower-filler-capper monobloc is a powerful combination. It combines blower, filler, capper in one block. It is the best choice compared with traditional production line. It is competitive and can improve the whole value of packaging production line.

efficient, environmental, hygienic, economic, flexible ... It has the features whatever you want.

In product application, it can be used to produce all PET containers in the market and also complete the filling for different liquid products. Meanwhile. It removes the conveying system, empty bottle storage

space and loading procedures, improves package conditions, reduces contamination, increases the machine efficiency, saves energy and saves cost.

As the rarer suppliers who has the key technology of PET blower and filler, Tech-Long is the pioneer of monobloc machine. Since 2009, Tech-Long developed the first blower-filler-capper monobloc, we keep improving and enlarging our products range. In 2013, Tech-Long launched ultra hygienic volumetric blower-filler-capper monobloc, which is the leading position in the world.



innovative technology to use single machine to complete the process from preforms to bottled liquid products

What Bottles We Can Blow?

- Round Bottle
- Square Bottle
- Shape Bottle
- Light Weight Bottle

What Is The Bottle Size?

Volume(200ML -10L)

What Kind Of Products We Can Fill?

- Bottled Water
- Csd
- Non-Csd Beverages
- Tea
- Edible Oil
- One Gallon Bottled Water
- Beverages
- Juice
- Energy Drinks
- Daily Cosmetic Products

Capping

- Plastic Flat Cap
- Plastic Sports Cap



Hot Melt Glue Labeling Machine

Tech-Long hot melt glue labeling machine is a machine applied new research result. It has the feature of proper design, reliable performance, low running cost, high competitiveness etc. It can meet the round bottle, square bottle, eclipse bottle in different production line. It can also be used to label before filling or after filling.

Application Range

Labeling machine can be used in daily cosmetics and chemical, food beverage, condiments industry etc.

- Label full wrap around bottle with hot melt glue
- Label partial bottle with hot melt glue
- Square bottle or shape bottle fixed position label
- Label before filling or after filling
- Label materials can be paper, pet, opp, bopp etc
- Label on pet bottle ,glass bottle and metal bottle



Design feature

- Simple, easy operation;
- Optimized design, less consumable parts;
- 10 Minutes to do different bottle change over
- Mobile and fixed cutter adjustment simple, long time cutter
- Optimized label feeding and control to meet different label application
- Optimized glue system to meet different glue application

Machine Model		Non-Fixed Position Label	Fixed Position Label
PHR24		42000 BPH	32000 BPH
PHR20		36000 BPH	30000 BPH
PHR18		28000 BPH	24000 BPH
PHR15		24000 BPH	20000 BPH
PHR12		18000 BPH	15000 BPH
PHR6		12000 BPH	8000 BPH
Bottle Parameters		Label Parameters	
Bottle Height	Min.—150mm	Label Height	Min.—30mm
	Max.—370mm		Max.—175mm
Bottle Diameter	Min.—55mm	Label Length	Min.—185mm
	Max.—110mm		Max.—360mm
Cutomzied machine is available			



Conveying System

In water, beverage, dairy, edible oil, cosmetics production lines, conveying system plays an important role. How to connect the independent equipment into a proper complete line and reach to best efficiency, has a great relationship with conveying system design.

Common Conveyor System

- Bottle Conveyors
- Pack Conveyors
- Cap Conveyors
- Air Conveyors(Aseptic)

Functional Conveying System

- Cooling Tunnel
- Titrating Conveyors
- Cap Rinser
- Warmer
- Handle Applicator

Appendix Conveyors

- Cap Elevator
- Bottle Elevator
- Air Dryer
- Cap Blower
- Visual Lamp



Cooling Tunnel

Capacity: 6000-72000BPH

PET bottle, glass bottle

Used to cool down hot filling product with PET bottle or glass bottle



Air Conveyors

Max. Speed: 95m/min

PET empty bottle

Fit to variable shape and size PET empty bottle



Carton Conveyors

Max. speed: 80Cartons /min

Carton, plastic case, film case

Used to convey carton, plastic case, film case in beverage production line



Full Bottle Conveyors

Capacity:6000-72,000BPH

PET bottle, glass bottle

Can be designed to meet different bottle sizes;

VFD to control speed



Bottle Warmer

Capacity: 6000-72,000BPH

PET empty bottle

Used to warm cold filling product with PET bottle or glass bottle



Tilting Conveyors

Capacity: 6000-48,000BPH

PET bottle, glass bottle

Used to hot filling production with PET bottle and glass bottle

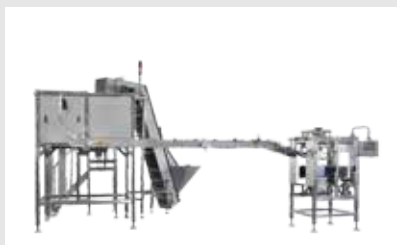


Accumulation Table

Capacity: 6000 BPH-72,000BPH

PET bottle

Used to accumulate bottles to get buffer time



Handle Application System

Capacity: 800-6000BPH

PET bottle, glass bottle

Used to large PET bottled water, alcohol, edible oil, daily chemical's handle application

Packaging Machines

Tech-Long packaging machines can be categorized as palletiser and depalletiser, shrink wrapper and wrap around packer, case packer and case unpicker, and integrated automaton system.

Every series comply with different products, which are widely used in several manufacturing industries. Tech-Long packaging machines can be used to do secondary package for variable bottles, cans barrels, and also can be used to match with filling line. Tech-Long package machines' features are automated, reliable, simple etc.



Shrink Wrapper and Wrap Around packer

Applicable to pack the glass bottle, PET bottle and cans in beverage, beer, food, medicine industries

Bottle diameter: $\phi 56-\phi 100$

Packing format 2x3, 3x4, 4x4, 4x5, 4x6, 5x8 etc

Category	Description	Model	Size(L*W*H)	Installed Power	Capacity
Wrap Around Packer	Sunk-Type Wrap Around Packer	DBZ-ZB15	6160X2500X2000	12KW	15CPM
	Fully Automatic Wrap Around Packer	DBZ-ZB30	10615X2000X2400	14KW	30CPM
		DBZ-ZB45	10615X2000X2400	17KW	45CPM
		DBZ-ZB60	15535X4200X2400	20KW	60CPM
Shrink Wrapper	Shrink Wrapper	DBZ-MB10	5500x3200x2100	25KW	10CPM
		DBZ-MB20	11840x1100x2100	38KW	20CPM
		DBZ-MB30	11191x1570x2470	95KW	30CPM
		DBZ-MB45	11191x1570x2470	95KW	45CPM
		DBZ-MB80	12461x1870x2470	142KW	80CPM
	Shrink Wrapper With Tray	DBZ-MBT35	12691x1870x2470	98KW	35CPM

Palletiser & Depalletiser

Applicable to pack the glass bottle, PET bottle, 5 gallon bottles and cans in beverage, beer, food, medicine industries

Max. Pallet Size: 1250x1250x150mm

Category	Description	Model	Size(L*W*H)	Installed Power	Capacity
Traditional Palletiser	Single Lane Palletiser	DBZ-BMD40	2790x3255x3995	25KW	20000-32000BPH
	Duoble Lane Palletiser	DBZ-BMD60	2790x3255x3995	30KW	30000-40000BPH
	Double Pallet Palletiser	DBZ-BMD80	4317x3255x3995	40KW	40000-65000BPH
Robotic Palletiser	Robotic Palletiser	DBZ-JMD30		30KW	20000-30000BPH
	Single Lane Robotic Palletiser	DBZ-JMD40	2485x2245x2200	40KW	20000-36000BPH
	Double Lane Robotic Palletiser	DBZ-JMD80	2485x2845x2200	45KW	30000-54000BPH
Bulk Water Palletiser	Bulk Water Palletiser	DBZ-BMT20	4000x2300x4300	15KW	1500-2200BPH
	Robotic Bulk Water Palletiser	DBZ-JMT40	2000x600x1000	27KW	1100-2200BPH
Single Column Palletiser	Single Lane Single Column Palletiser	DBZ-LMD40	4080x2510x5185	20KW	20000-38000BPH
	Double Lane Single Column Palletiser	DBZ-LMD60	4080x2510x5185	26KW	36000-48000BPH
Depalletiser	Case Depalletiser	DBZ-CXD60	2490x2910x4264	25KW	20000-42000BPH
	Double Pallet Case Depalletiser	DBZ-CXD80	4300x2910x4265	30KW	40000-65000BPH
Empty Bottle Depalletiser	High Level Empty Bottle Depalletiser	DBZ-BXP50	4200x4300x2800	20KW	30000-70000BPH
	Low Level Empty Bottle Depalletsier	DBZ-DXP40	2920x3255x4086	22KW	20000-30000BPH

Packaging Machines

Case Packer and Case Unpacker

Applicable to pack the glass bottle, PET bottle and cans in beverage, beer, food, medicine industries

Bottle Diameter: ϕ 55-100, 330mL-1.5L, H=230-330

Category	Description	Model	Size(L*W*H)	Installed Power	Capacity
Case Packer	Robotic Case Packer	DBZ-JRZX180	4600×2850×2600	19KW	24000-36000BPH
	Horizontal Case Packer	DBZ-ZX45	5360×2105×3500±50	6.3KW	18000-30000BPH
	Horizontal Double Column Case Packer	DBZ-ZX60	4300×3590×4365±50	11KW	40000-60000BPH
Case Unpacker	Horizontal Case Unpacker	DBZ-XX45	5360×2105×3500±50	6.3KW	18000-30000BPH
	Horizontal Double Column Case Unpacker	DBZ-XX60	4300×3590×4365±50	11KW	40000-60000BPH
Case Former	Case Former-Tape	DBZ-CXJ30	2800×1150×1800	2KW	30-35CPM
	Case Former-Hot Melt Glue	DBZ-CX30	2800×1150×1800	6KW	25-30CPM
Case Sealer	Case Sealer-Tape	DBZ-FXJ40	1450×640×1300	0.8KW	35-40CPM
	Case Sealer-Tape, Double Lane	DBZ-FXJ70	1461×1056×1170	0.8KW	70-80CPM
	Case Sealer-Hot Melt Glue	DBZ-FX40	1500×790×1300	4KW	35-40CPM
	Case Sealer-Hot Melt Glue Double Lane	DBZ-FX70	1461×956×1170	5.5KW	70-80CPM

Our broad experience in the industry makes us the best partner to design or optimize your PET turnkey solution.

YOUR ENTERPRISE IS UNBEATABLE, WHILE OUR STRENGTH IS OBVIOUS. AS THE LEADING COMPANY IN THE INDUSTRY, TECH-LONG OWNS ABUNDANT CONFIDENCE AND STRENGTH TO CUSTOMIZE TURNKEY SOLUTION FOR YOU.

LONG-TESTED TURNKEY SOLUTION

Tech-Long's high speed liquid packaging production line, including water treatment, beverage pre-processing, blower-filler-capper monobloc, injection moulding, blow molding, filling, conveying, labelling, packaging and so on. Over the years, hundreds of water lines have been successfully applied, and the rate of the complete line's production efficiency is higher than 85%, while the rate of the finished products is higher than 99.5%.

Based on the advantage of the liquid product packaging system, Tech-Long knows every technology of packaging system very well. And based on what mentioned above, Tech-Long developed automatic application turkey solution which constructed mainly by free technology. As the new industrial revolution's coming, Tech-Long will change its production mode and build automatic system to offer your turnkey solution in the best way, in order to offer you the turnkey solution in the best way that facing to the future.

CONTINUOUS INNOVATION ABILITY

Listening to the clients' needs and focusing on the trend of the market, Tech-Long has always believed in the power of the products' innovation. And we will never give up innovation.

Tech-Long owns the only national qualified enterprise technological center in the industry, the combination of national and local

engineering research center, as well as over 340 professional technological and developing staffs. The rich technological developing techniques and superior professional talents are the source of continuous innovation. Until now, Tech-Long has already achieved over 370 technological patents and developed 3 to 5 new products per year.

AFTER-SALES SERVICE SYSTEM & SERVICE HOTLINE

Tech-Long will be by your side since you purchase Tech-Long's products. In a word, what you buy is not only the products, but also Tech-Long's service.

Tech-Long has the standard machines and local service as well as more than 30 million spare parts. No matter where and when, Tech-Long will provide you with the quick and accurate service immediately according to your specified needs, so that you can experience convenient, professional and rapid after-sales service.

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TECH-LONG TRAINING CENTER

Tech-Long training center can provide you with the theoretical knowledge and practical training, so that your technological staffs' operation and machine's management ability can be all-sided improved from technology, production and maintenance. What's more, your machine's management cost can also be lowered down.



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