



PACK WHAT YOU WANT

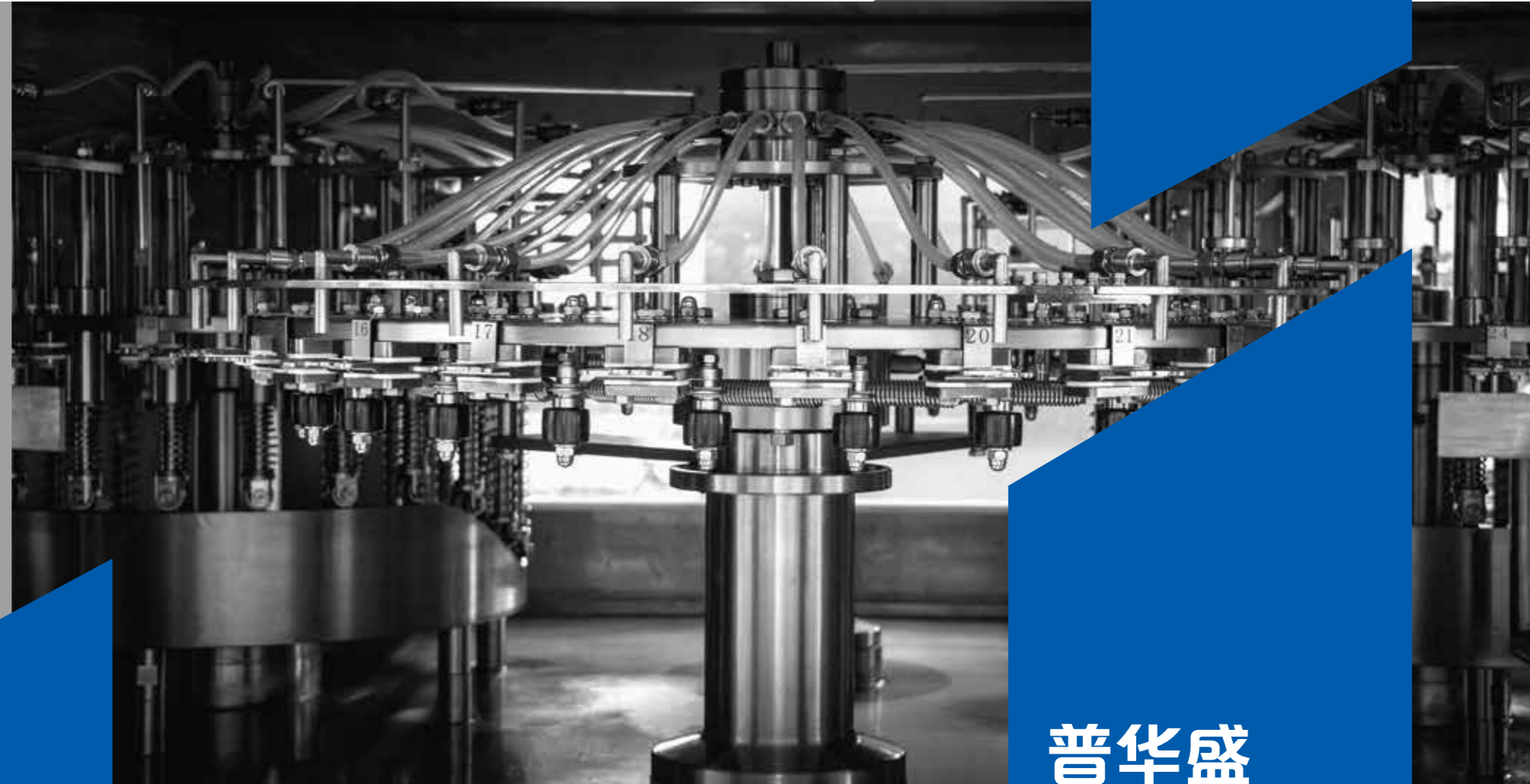


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普华盛

专注液体灌装和包装的  
整体解决方案

FOCUS ON COMPLETE SOLUTION  
FOR LIQUID  
FILLING&PACKAGING



江苏普华盛包装科技有限公司  
JIANGSU PHS PACKING TECHNOLOGY CO.,LTD.

# PACK

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# FOCUS ON COMPLETE SOLUTION FOR LIQUID FILLING&PACKAGING

Jiangsu PHS Packaging Technology Co.,Ltd.(PHS) is a wholly owned subsidiary of Shanghai Precise Packaging Co.,Ltd.(PLS, Stock Code 300442). PHS is a high-tech enterprise integrating R&D, design, manufacturing, engineering installation&debugging and after-sales service of liquid(dairy, beverage, condiment, wine, daily chemical) packaging and a complete set of packaging machinery.

We are committed to providing our customers worldwide with integrated innovative solutions capable of fully meeting their demands for liquid filling&packaging production and storage in efficiency, reliability, flexibility and energy saving.

There are more than 50 professional and technical talents of R&D team who graduated from 985&211 universities major in mechatronics, automatic control, mechanical design, control engineering and food engineering, more than 20 invention patents and more than 60 new utility patents. At the same time, our company has a professional team consisting of various veterans in the industry, advanced machining equipment and an efficient construction team.

Based on customers' demands&needs, We can provide packaging forms such as PET barrels, PET bottles, cans, glass bottles, aseptic bricks and etc. At the same time, We also offer the whole plant turn-key project from product process design, bottles design to the overall layout design of water treatment, pre-processing, bottles blowing, filling, capping, coding, lamp-checking, labelling, conveying, packaging, palletizing and intelligent storage, as well as operation and maintenance training for operators.

We keep pace with times, through constant innovation and deepening of industry 4.0, relying on the unique core dry aseptic and ultra-clean filling technology of the Group and its wholly-owned our brother company Italian COMAN Group, at the same time, absorbed the industry's superior experience&advantages, formed our own unique dry aseptic filling technology which can significantly reduce the waste of resources caused by the flushing of the disinfectant and the amount of sewage discharge and the disinfection process can achieve zero sewage discharge so that provides an effective guarantee for energy conservation and environmental protection, and saves energy and costs for customers.

Our products have been exported to more than 100 countries and regions, more than 1,000 customers&users such as Mengniu, Master Kong, Nongfu Spring, PANPAN, CoCa Cola, Yili, Comfert, Pepsi, Robust, Sanyuan, Tsingtao Beer, SnowBeer, RedBull, Jianlibao, C'setbon, Nestle Waters, Lotte, Mlee, Safeguard, Kinsell, Perrier, Evian, Wahaha, New Hope, Hengshun, LEE KUN KEE, Tuborg, Absolut, ACUQA, Walch, HPGC, EastRoc, Unilever and so on, More than 1,500 of production lines have been successfully accepted and put into production.



专注液体灌装和包装的  
整体解决方案 **普华盛**

江苏普华盛包装科技有限公司系上海普丽盛包装股份有限公司全资子公司(股票代码:300442),是集液体(乳品,饮品,调味品,酒品,日化品)包装及成套包装机械研发,设计,制造,工程安装调试,售后服务为一体的高新技术企业,致力于为全球客户提供集成的创新解决方案,以在效率,可靠性,灵活性和节能方面完全满足客户对液体灌装和包装生产和存储的需求。

公司研发团队拥有机电一体化,自控,机械设计及食品工程等各类专业技术人才50多人,20余项发明专利以及60余项新型实用专利,与此同时公司拥有由行业多位资深人士组建的专业化团队,先进的加工设备和高效的施工队伍。

我们可按照客户需要提供PET桶、PET瓶、易拉罐、玻璃瓶、无菌砖等包装形式,从产品工艺设计,瓶型设计到工厂整体布局设计的整包交钥匙方案,为客户提供水处理,前调配,吹瓶,灌装,旋盖,包装,码垛,智能仓储等成套智能设备及全面解决方案,并提供操作人员的运维培训。

我们与时俱进,不断创新深化工业4.0,依托集团及旗下全资意大利CO.M.A.N SRL公司独有的核心干法无菌和超洁净灌装技术,同时充分吸收行业优势经验,博采众长形成了自己独特的干法无菌灌装技术,大幅度减少包材消毒液冲洗带来的资源浪费,减少了污水排放量,消毒环节可实现0污水排放,为节能环保提供了有效保障,为客户节约了能源与成本。

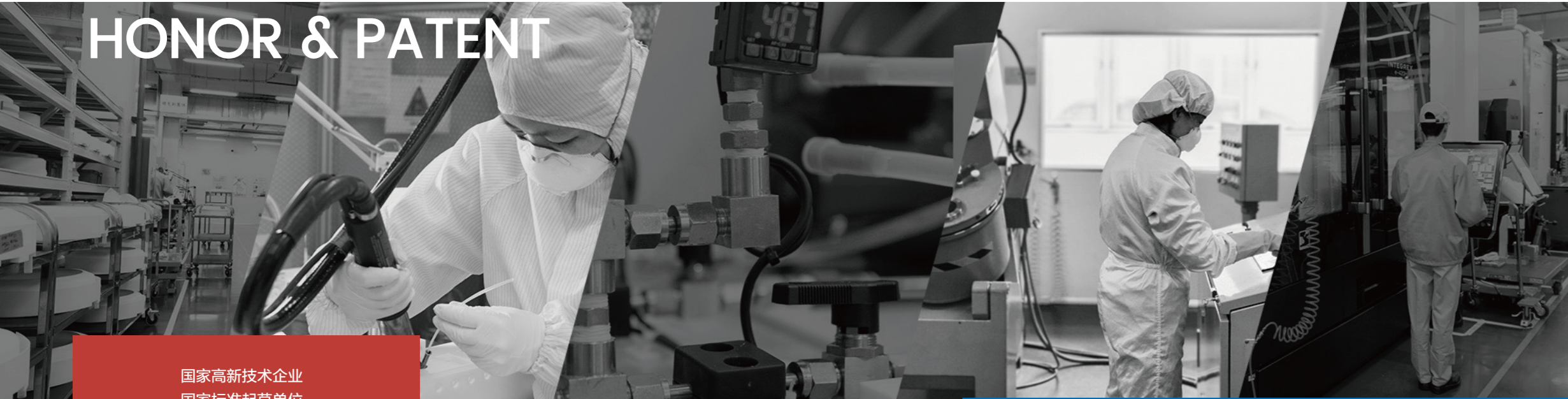
普华盛生产的液态全套灌装设备用户超过1000多家,遍及国内30多个省市自治区及全球100多个国家和地区。





# 荣誉专利

## HONOR & PATENT



国家高新技术企业  
 国家标准起草单位  
 质量体系认证单位ISO9002  
 国家二级安全标准化企业  
 中国食品和包装机械行业名牌产品  
 国家机械工业部优秀企业  
 全国轻工机械标准化委员会“先进单位”  
 苏州名牌产品

PHS is National High-tech Enterprise, National Standard Drafting Unit of China, National Secondary Safety Standardization Enterprise, Famous Brand Product of China Food and Packing Machinery Industry, Excellent Enterprise of the Ministry of Mechanical Industry, Famous Brand Product and Contract and Trustworthy Enterprise of Jiangsu Province, Member of Technical Committee of Wine Making and Beverage Machinery, participated in the revision of national industry standards such as "Beverage Mixer", "Can Filling and Capping Machine". PHS was awarded as the advanced unit of standardization 2016-2020 by Technical Committee for Standardization of Light Industry Machinery&Technical Committee of (Alcoholic) Beverage Machinery.



Shanghai Precise Packaging Co.,Ltd. (PLS) was founded in 1992. In 2007 it got the investment from Softbank, and in 2015 list on the A-share. Stock Code:300442. It is the first domestic A-share listed company in the domestic food packaging and processing industry, and is also one of the most competent companies.

Shanghai Precise Packaging Co.,Ltd. (PLS) with 8 subsidiaries  
 Shanghai Precise Sanhuan Food Equipment Project Co.,Ltd.  
 Shanghai Precise Range Machinery Co.,Ltd.  
 Suzhou Precise Packaging Materials Co.,Ltd.  
 Suzhou Precise Packaging Machinery Co.,Ltd.  
 Suzhou Precise Food Technology Co.,Ltd.  
 Jiangsu PuhuaSheng Packaging Technology Co.,Ltd.  
 Shanghai Pudi Industrial Intelligent Equipment Co.,Ltd.  
 CO.M.A.N Srl (Italy)

PLS has seven production bases such as Shanghai Jinshan, Jiangsu Wujiang, Zhangjiagang, Inner Mongolia, Hohhot, Italy Parma. As a leading enterprise in the liquid food packaging and processing equipment industry, PLS provides a holistic solution and integrated service for the former processing equipment, filling equipment, packaging materials, and liquid food (such as milk, beverage, mineral water, alcohol, etc.) production.

上海普丽盛包装股份有限公司创立于1992年，2007年吸纳软银投资，2015年于A股上市，是国内食品包装及加工行业首家国内A股上市公司，同时也是最具实力的知名企业之一，下设八家子公司：

上海普丽盛三环食品设备工程有限公司  
 上海普丽盛融合机械设备有限公司  
 苏州普丽盛包装材料有限公司  
 苏州普丽盛包装机械有限公司  
 苏州普丽盛食品科技有限公司  
 江苏普华盛包装科技有限公司  
 上海普狄智能工业设备有限公司  
 意大利COMAN集团

公司拥有上海金山、江苏吴江、江苏张家港、内蒙古呼和浩特、意大利帕尔马等七个生产基地。作为液态食品包装及加工装备行业的领军企业，普丽盛为客户提供前处理加工设备；灌装设备；包装材料以及液态食品（如牛奶、饮料、矿泉水、酒类等）生产的整体解决方案和一体化服务。





普华盛生产的液态全套灌装设备用户超过1000多家，遍及国内30多个省市自治区及全球100多个国家和地区

Our products have been exported to more than 100 countries and regions, more than 1,000 customers&users such as Mengniu, Master Kong, Nongfu Spring, PANPAN, CoCa Cola, Yili, Comfort, Pepsi, Robust, Sanyuan, Tsingtao Beer, SnowBeer, RedBull, Jianlibao, C'setbon, Nestle Waters, Lotte, Malee, Safeguard, Kinsell, Perrier, Evian, Wahaha, New Hope, Hengshun, LEE KUN KEE, Tuborg, Absolut, ACUQA, Walch, HPGC, EastRoc, Unilever and so on, More than 1,500 of production lines have been successfully accepted and put into production.

我们的客户&设备用户 (部分)

## 我们的供应&战略合作伙伴（部分）

PHS组件配置基于液体包装行业中的TOP品牌，机器的设计符合欧盟安全标准和CE标记，在其构造中使用了世界公认的TOP质量组件。

PHS component configuration is based on the TOP quality components of world recognized in the liquid packaging industry, The devices are designed in compliance with EU safety and CE-marked

Lenze, B&R, SEW, DANFOSS, SIEMENS, FESTO, AAF, SKF, INA, NSK, SICK, PHENIX, MULL, OPTEX, BELL, TRELLEBORG, R.JW, SEITZ, REXROTH, METALWORK,E+H, TE, etc

创新	INNOVATION
标准	STANDARD
质量	QUALITY
安全	SAFE
知名	FAMOUS
优秀	EXCELLENT
先进	ADVANCED

FESTO

ABB

SEW  
EURODRIVE

Schneider  
Electric

OMRON

SVC

SACMI



SIEMENS

.....

## OUR SUPPLIER&PARTNER (PART)





# WATER TREATMENT SYSTEM



## 水处理系统

水处理系统主要应用于纯净水、矿泉水、矿物质水、山泉水、饮料产品水和工艺水等各种水处理设备，主要以原水的水质和目标水的水质作为设计依据。

包含：预处理系统（多介质过滤器、活性炭过滤器、离子交换器、超滤过滤器，钠滤器，微孔过滤器，氟过滤器等）、深度过滤系统（反渗透膜过滤器）、终端处理（紫外线杀菌机，臭氧设备等）

Water treatment system is mainly used in various water treatment equipment such as purified water, mineral water, mineralized water, spring water, food&beverage product water and process water and etc, It is designed based on the water quality of the raw water and the target water, so that the selected process can be divided into three parts Pre-processing System (Multi-media Filter, Carbon Filter, Softener, Iron and Manganese Removal Filter, Fluoride Removal Filter, Ultra Filter, Micro Filter, etc), Membrane Filtration System (RO Series Equipment, Membrane and Ion Exchanger, etc) and Terminal Processing System (Ozone, UV, EDI or CDI treatment, etc) and so on.

Product water standards will meet the customized basing on different standards, such as  
GB5749-2006 Standards for Drinking Water Quality (CHN)  
CJ/T Standards of Urban Water Quality (CHN)  
ISBN 92 4 1546654 Guidelines for Drinking Water Quality (WHO)  
EPA 822-F-18-001 Drinking Water Standards and Health Advisories (USA)  
98/83/EC Drinking Water Standards (EU)



有了优质的原料，独到的配方，先进的工艺，为了产品的卫生和安全，你还需要一套精良的设备。

前处理系统通常包括热水制备，溶糖，过滤，调配，灭菌，一些饮料还需要萃取，分离，均质，脱气等设备，当然CIP系统必不可少。我们集团有专业的前处理设备公司，上海普丽盛包装股份公司，上海普丽盛三环食品设备工程有限公司和上海普丽盛融合机械设备有限公司，专注前处理系统超过21年，拥有丰富的前处理工艺设计和设备制造的经验，根据客户需求提供各种设备及整厂交钥匙工程。



## 前处理系统 PRE-TREATMENT SYSTEM

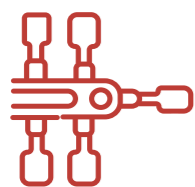
With high-quality raw materials, unique formulas, and advanced technology, you need a set of sophisticated equipment for product hygiene and safety.

The pre-treatment system usually includes hot water system, sugar dissolving system, filtering system, batching system, ingredients, some beverages also need extraction, separation, homogenization, degassing and other equipment, of course, CIP system is essential.

Our group has professional pre-treatment equipment companies, Shanghai Precise Packaging Co.,Ltd. (PLS) Shanghai Precise Sanhuan Food Equipment Project Co.,Ltd.

Shanghai Precise Range Machinery Co.,Ltd. PLS, PLS SANHUAN&PLS RANGE have focused on pre-treatment equipment&system from 1992, provide various equipment and turnkey project of whole plant according to customer demands&needs with rich examples of pre-treatment design and equipment manufacturing experience.





## 吹瓶系统

## BLOW MOLDING SYSTEM



吹瓶机先加热PET瓶胚，然后在模具内用压缩空气将之拉伸吹塑成型。配合饮料生产线高速化的发展趋势，全自动旋转式吹瓶机渐成主流，被大中型饮料企业广泛使用。

PHS于2015年收购了一家从事超过15年的专业制造吹瓶机包装设备公司，成立子公司-普恰吹瓶科技有限公司，组建了一个拥有自动化控制，机械设计和工艺设计专业高端技术人才30多名，专注旋转式吹瓶设备的研发制造团队。到2020年12月为止交付超过350台，普恰吹瓶机已经达到行业领先技术水平，具有自动化、高智能化、性能稳定可靠，高效、节能、安全，以及应用于饮料、牛奶制品、酒类、调味品、医药、日化等PET瓶的生产。

The blow molding machine first heats the PET preform, and then stretches and blows it with compressed air in the mold, in line with the development trend of high-speed beverage production lines, fully automatic rotary blow molding machines have gradually become the mainstream and are widely used by large and medium-sized beverage companies.

In 2015, PHS acquired a company specializing in manufacturing blow molding machine packaging equipment for more than 15 years, and established a subsidiary-PUQIA Blow Molding Technology Co., Ltd. A team with more than 30 professional high-end technical talents in automation control, mechanical design and process design has been formed, focusing on the R&D and manufacturing of rotary blow molding equipment, at the same time, we formed PET mould Division specializes in bottle design, and the entire line adopts the American Haas CNC machining center.

More than 350 units have been delivered statistics until December 2020, PUQIA rotary blow molding machine has reached the industry's leading advanced technology level. With automation, high intelligence, stable and reliable performance, high efficiency, energy saving, safety.

PUQIA rotary blow molding machine is used in the production of PET bottles for beverages, milk products, wines, condiments, medicines, daily chemicals, etc.





## 我们的优势

吹瓶机速度最高单腔产能可达2500BPH/普通瓶，2000BPH/含气瓶，1200BPH/热灌装；

翻转式加热炉结构，陶瓷反射板可节能电耗25%；

核心件吹瓶阀岛封口缸一体式，瑞士进口订制，可节能气耗40%；

吹瓶机可达7\*24小时0故障，吹瓶合格率高达99.98%；

吹瓶机内置保养菜单、运行记录，并提供远程技术支持；

设备运行凸轮专利制造，低振动，运行稳定可靠。



The maximum 1-cavity capacity of the bottle blowing machine can reach 2500BPH/Water Bottles, 2000BPH/CSD Bottles, 1200BPH/Hot Fill Bottles;  
 Reversible heating furnace structure, ceramic reflector can save energy and power consumption by 25%;  
 The core part of the bottle blowing valve island sealing cylinder is integrated, customized imported from Switzerland, which can save energy and gas consumption by 40%  
 The bottle blowing machine can reach 7\*24 hours with 0 failures, and the blowing qualification rate is as high as 99.98%;  
 The bottle blowing machine has a built-in maintenance menu, operation records, and remote technical support;  
 The equipment running cam is made of patent, low vibration, stable and reliable operation.

## OUR ADVANTAGE

SERIES	MODEL	CAVITIES	CAPACITY (BPH)	
			3-6L	10L
LARGE LPQ	LPQ2AB	2	2000	1200
	LPQ4AB	4	4500	3000
	LPQ6AB	6	7000	4500
			12-15L	20L
	LPQ4BB	4	3000	2400
	LPQ6BB	6	4500	3600

SERIES	MODEL	CAVITIES	CAPACITY (BPH)		MAX BOTTLE SIZE
			WATER BOTTLE	CSD BOTTLE	
SINGLE SERVE SSPQ	SPQ16B	16	38400	32000	0.77L
	SPQ18B	18	43200	36000	
	SPQ20B	20	46000	40000	
	SPQ22B	22	48400	44000	
	SPQ24B	24	52800	48000	
	SPQ26B	26	57200	52000	
	SPQ28B	28	61600	56000	
	SPQ30B	30	66000	60000	
	SPQ32B	32	70400	64000	

SERIES	MODEL	CAVITIES	CAPACITY (BPH)			MAX BOTTLE SIZE
			WATER BOTTLE	CSD BOTTLE	HOT FILLING BOTTLE	
STANDARD SPQ	SPQ4B/X	4	9600	8000	4800-7200	2.5L
	SPQ6B/X	6	14400	12000	7200-10800	
	SPQ8B/X	8	19200	16000	9600-14400	
	SPQ10B/X	10	24000	20000	12000-18000	
	SPQ12B	12	27000	24000	14400-21600	
	SPQ14B	14	31500	28000	16800-25200	
	SPQ16B	16	36000	32000	19200-28800	
	SPQ18B	18	40500	36000	21600-32400	
	SPQ20B	20	45000	40000	24000-36000	
	SPQ22B	22	49500	40000	26400-39600	







## 灌装系统

### FILLING SYSTEM

灌装系统涵盖了大量不同设计的系统，从具有自动或半自动程序的小型灌装系统到复杂的自动化系统。根据设计，它们结合了供料器技术，包装技术，机器人技术和视觉对象识别系统。

PHS灌装解决方案适用于各类饮料或是液体类食品，涵盖各种灌装工艺包括塑料容器，玻璃瓶，和易拉罐。设计理念从灌装机机械性能出发，简单有效的系统，精密的电子灌装，超净无菌的环境都应当被充分考虑，也因此独立式灌装设备或是一条完整灌装生产线等多种解决方案供您选择。

Filling systems cover a large number of systems of different designs, from tiny filling systems with automatic or semi-automatic procedures to complex automation systems. Depending on design, they combine feeder technology, packaging technology, robotics and visual object recognition systems.

With its wide range of technologies for the filling and packaging of plastic containers (PET, PP, PE, HDPE), glass bottles, and cans, PHS presents a vast offer of products to the world of drinks and liquid foods.

The solutions devised by PHS materialize in a wide choice of products: from the mechanical fillers, the simplest and proven systems, to the most sophisticated electronic fillers, ultra-clean and aseptic; from the supply of stand alone filling machines to the supply of complete lines.

**PACK** WHAT YOU WANT



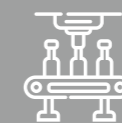




## WHAT KINDS OF PRODUCTS YOU WANT TO FILL?

With its wide range of technologies for the filling and packaging of plastic containers (PET, PP, PE, HDPE), glass bottles, and cans, PHS presents a vast offer of products to the world of drinks and liquid foods.

The solutions devised by PHS materialize in a wide choice of products: from the mechanical fillers, the simplest and proven systems, to the most sophisticated electronic fillers, ultra-clean and aseptic; from the supply of stand alone filling machines to the supply of complete lines.



## FILLING SYSTEM 灌装系统

我们会调查客户的需求和期望，并考虑基础设施以及未来和未来的生产计划综合解决方案使用最新技术打开您的生产。探索创新的技术解决方案，同时对整个过程进行生产，装瓶和包装各种饮料和其他液体。



Based on client's needs, expectations and future production plans, We propose the comprehensive solutions with latest technologies, taking into account infrastructure and industry development trend, also guaranteeing the whole process production. More than 50 professional and technical talents of R&D team.

We provide comprehensive advice and professional needs analysis.

Our devices, created by a team of experienced engineers are working on the success of more than hundreds of production lines around the world



## 吹灌旋一体机

吹灌旋一体机是集吹瓶，灌装，旋盖为一体的强大的组合体，由单机完成从瓶胚到瓶装的整体过程，可减少传送，空瓶处理，堆积，储存工艺等中间环节，改善包装卫生条件，降低交叉污染，提高整体运转效率，节约能耗，从而降低了综合生产成本。

PHS整合行业最尖端吹瓶，灌装技术进行优势互补，同时全面吸收COMAN公司核心技术设计制造出我们自己的核心产品，PHS吹灌旋一体机CGX系列，操作简单、稳定高效、能耗低、智能化程度高。产品生产种类从小瓶(100ML)至桶装19L，每小时产能从2000桶(19L/B)至54000瓶(500ML/B)



## BLOWING-FILLING-CAPPING COMBIBLOCK



The Blowing-Filling-Capping Combiblock is one powerful combination, which completes the whole process from preform to bottled. It can decrease intermediate links such as conveying, empty bottle handling, stacking and storage processes, improve packaging sanitary conditions, reduce cross-contamination, increase overall operating efficiency, save energy consumption, so that it cuts overall production costs.

PHS integrates the industry's most cutting-edge bottle blowing and filling technology to complement each other's advantages. At the same time, we fully absorbed the core technology of COMAN to design and manufacture our own core product, the CGX series Combiblock which is simple to operate, stable and efficient, low energy consumption, and highly intelligent.

The production types range from small bottles (100ml) to 19L in barrels, and the production capacity per hour ranges from 2000 barrels (19L/B) to 54,000 bottles (500ML/B).



类别/TYPE	瓶型容量/BOTTLE SIZE	产能/CAPACITY
饮用水灌装 Drinking Water Filling	0.5-2L	12000BPH-54000BPH
	5L	4000BPH-6000BPH
	15L	1500BPH-3600BPH
碳酸饮料灌装 CSD Beverage Filling	0.33-2.5L	5000BPH-48000BPH
热灌装 Hot Filling	0.5-1.5L	5000BPH-48000BPH
超洁净灌装 Ultra-clean Filling	0.5-1.5L	12000BPH-48000BPH
无菌冷灌装 Aseptic Filling	0.5-1.5L	12000BPH-48000BPH



# 一次性桶装水 吹灌旋一体机

随着人民生活水平的提高，健康饮水意识逐渐植根消费者心中。烧饭用水、泡茶用水.....越来越多地倾向于瓶/桶装水，大容量的包装水的销路越来越畅通。相比消费指数更高的瓶装水，桶装水市场长期以来一直保持较为单一的产品模式。自来水灌装、水桶无限期使用、细菌指数超标、长期不饮用变质、运输半径有限等等因素已经严重影响到桶装水行业的健康发展。

为解决桶装水行业目前的难点和痛点，走在技术前沿的普华盛率先向市场推出一一次性PET材料的大容量桶装水吹灌旋生产线，我们先后为多家客户量身定制了一次性桶装水的生产线。

例如：12L/农夫山泉, 15L/乐百氏

适用范围：5L-19L

称重方式：称重流量计，光电检测

产能：1200BPH-4800BPH



## BLOWING-FILLING-CAPPING COMBIBLOCK for DISPOSABLE BARRELED DRINKING WATER

With the improvement of people's living standards, the healthy drinking water consciousness gradually roots consumers. Cooking water, tea with water ... More and more consumers tend to bottled&barreled water, large-capacity packaging water sales is increasingly smooth. However, the barreled water market , the water market has long been a single product model.

In order to solve the current difficulties and pain points in the barrel water industry, PHS in the technology frontier is first to introduce a disposable PET material to the market, We have tailored the production line of disposable barreled drinking water for many customers, such as 12L for Nongfu Spring, 15L for Robust.

Compatible with 5L-19L

Filling Method: Gravimetric Flow Meter , Photoelectric Detection.

Production capacity: 1200BPH-4800BPH





## 碳酸饮料 吹灌旋一体机

碳酸饮料吹灌旋一体机整合吹瓶技术和灌装、拧盖技术，应用伺服系统进行同步控制，使之实现多个单位设备一体化控制和生产，满足多种饮料化的生产需求，从而降低投资成本、能耗和维护成本，加上完美布局可实现能耗最大降低25%。

普华盛吹瓶机组可吹制最高CO<sub>2</sub>溶解量4.2倍CSD的PET瓶。

普华盛等压碳酸饮料灌装机结合普华盛多年含气碳酸饮料灌装经验，具有灌装速度稳定，不翻浆，液位整齐划一的特点。配合普华盛高倍数混合机使用，该机组可高速稳定地灌装高倍数碳酸饮料，为饮料厂家生产高品质口感优良的多品种碳酸饮品。我们的客户有可口可乐，百事可乐，健力宝（元气森林），北冰洋等等。

灌装方式：流量计电子阀，传统机械阀  
产量：12000BPH-48000BPH  
灌装温度：0-4° 或12-15°



Blowing-Filling-Capping Combiblock for CSD beverage integrates the blowing, filling and capping technology and applies the servo system to synchronize control to achieve multiple unit devices integrated control and production, meet the production needs of various drinks, thereby reducing investment costs, energy consumption and maintenance costs, plus the perfect layout to achieve maximum energy consumption by 25%.

PHS Blowing Unit makes the PET bottle can hold the up to 4.2 times CO<sub>2</sub> dissolved liquid.

PHS CSD Beverage Filling Unit combined with multi-year CSD beverage filling experience, make sure the filling stability, not Frothing, level uniform characteristics. Used with our CSD mixer, Combiblock can fill CSD beverage at high speed and stably, products high quality taste for beverage manufacturers.

Our customers have Coca-Cola, Pepsi, Jianli Bao (YUANQI SENLIN), Arctic Ocean, etc.

Filling Method; Mechanical Valve Filling, Flow Meter Filling, Electronic Valve Filling

Capacity; 12000BPH-48000BPH

Filling Temperature; 0-4° or 12-15°

**BLOWING-FILLING-CAPPING  
COMBIBLOCK**  
for CSD BEVERAGE





## BLOWING-FILLING-CAPPING COMBIBLOCK OF HOT FILLING

Mainly used for Filling&packaging PET Bottle of Juice, Tea Drink, Energy Drink, Functional Beverage and etc.  
Capacity: 9000BPH-48000BPH



## 热灌装吹灌旋一体机

适用范围：  
主要用于PET瓶果汁、茶、功能性饮料等的包装。  
产能范围：  
9000瓶/小时-48000瓶/小时。





我们与时俱进，不断创新深化工业4.0，依托集团及旗下全资意大利COMAN SRL 公司独有的核心干法无菌和超洁净灌装技术，同时充分吸收行业优势经验，博采众长形成了自己独特的干法无菌灌装技术，大幅度减少包材消毒液冲洗带来的资源浪费，减少了污水排放量，消毒环节可实现0污水排放，为节能环保提供了有效保障，为客户节约了能源与成本。

We keep pace with times, through constant innovation and deepening of industry 4.0, relying on the unique core dry aseptic and ultra-clean filling technology of the Group and its wholly-owned our brother company Italian COMAN Group, at the same time, absorbed the industry's superior experience&advantages, formed our own unique dry aseptic filling technology which can significantly reduce the waste of resources caused by the flushing of the disinfectant and the amount of sewage discharge and the disinfection process can achieve zero sewage discharge so that provides an effective guarantee for energy conservation and environmental protection, and saves energy and costs for customers.

无菌灌装技术可应用于非碳酸产品，不添加防腐剂长期保持的饮料产品，高酸、低酸、中性饮料，PET瓶饮料产品。

Aseptic filling technology can be applied to non-carbonated products, beverage products without preservatives for long-term maintenance, high acid/low acid/neutral beverages, and PET bottle beverage products.

技术参数

生产能力 12000-48000BPH (500ml)  
瓶型 DIA: 50-120mm, Height: 120-320mm  
杀菌能力: ≥6D  
清洗循环时间: 4-6小时

Tech Data  
Capacity: 5000-48000BPH/ (500ml)  
Container Formats 50-120mm/Dia.  
120-320mm/Height  
Sterilization Capability: 6D  
Cleaning Time: 4-6hrs

## 无菌灌装技术 ASEPTIC FILLING

COMAN成立于1982年，是工程和制造包装工厂的领导者，主要致力于食品和乳制品市场，在UHT牛奶的无菌灌装过程中脱颖而出，在其中COMAN的工厂能够保证卓越的包装性能以实现高质量的最终产品。

Established in 1982, Coman is a leader in engineering and manufacturing packaging plants, mainly focused on the Food & Dairy market, working with the most important players, stands out the aseptic filling process for UHT milk, particularly for milk and yogurt processing system. where Coman's plants are able to guarantee an excellent performance to realize a top-quality final product.





# 干法超洁净 灌装机组

## DRY ULTRA-CLEAN FILLING UNIT



生产产品灵活多样，苏打水、矿泉水、风味酸奶、酸性乳饮料、冷链产品、ESL产品、功能性饮料等。

设备整体能耗大幅减少：RO水耗量减少70-80%；消毒液耗量减50-70%，废气排放量减少50%，废弃洗涤塔加药量减少30-40% 废水排放量减少80-90%；

设备整体占地面积比传统的湿法超洁净灌装机组减少30-40%；干法杀菌后的空瓶含水量位0，有效保证后续食品安全。

Filling temperature: normal temperature, medium temperature, high temperature  
Adaptation bottle: PET bottles, HDPE bottles  
Capacity: 5000-36000BPH/500ML



The production products are flexible and diverse, and can produce Soda, mineral water, yogurt, acidic milk beverage, cold chain products, ESL products, functional beverages, etc.

The overall energy consumption of the equipment is greatly reduced:  
RO water consumption is reduced by 70-80%, disinfectant consumption is reduced by 50-70%, exhaust gas emissions are reduced by 50%, waste scrubbers dosing volume is reduced by 30-40%, waste water discharge is reduced by 80-90%, The overall area of the equipment is 30-40% less than the traditional wet ultra-clean filling unit,  
Empty bottles after sterilization dry moisture content of bit 0, to ensure effective follow-up to food safety.



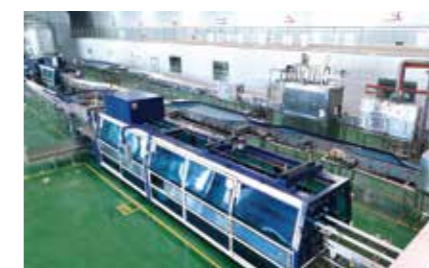


## CONVEYOR SYSTEM

The operating efficiency of the entire production line depends on the relevance and rationality of the configuration of each unit on the conveyor line. In the configuration of the conveyor line, it is necessary to consider that one device will not affect the operation of other equipment when it is temporarily shut down. At the same time, it can ensure that all the equipment are well connected together, so that the entire line can achieve higher operating efficiency. The conveying system plays a vital role in the entire production line.

空瓶风送系统  
理瓶机  
实瓶输送系统  
倒瓶杀菌系统  
喷淋杀菌系统  
温瓶机  
杀菌机  
包装输送系统

Empty Bottle Air Conveyor System  
Bottle Unscrambler  
Filled-bottle Conveyor System  
Inverted bottle Sterilization System  
Spray Sterilization System  
Bottle Warming Machine  
Sterilization Machine  
Packaging Conveyor System



## 33 普华盛 34

整条生产线运行效率，取决于输送线上的各单位配置的关联性和合理性。在输送线的配置上必须考虑到后端设备短暂停机时对前端设备的运行不能产生影响，同时应该能将前后的设备良好的衔接在一起，才能使整线达到较高的运行效率。输送系统在整条生产线上起着至关重要的作用。



一条完整的包装线除了装瓶还包括后面的二次包装和末端包装，二次包装有收缩膜包装，纸箱包装，纸箱裹包等形式可选，末端包装又可选机械式码垛或机器人码垛。

PHS精专于湿区包装，干区包装段则整合行业资源，选择配套主流专业厂商的设备产品。卸垛机，套标机，贴标机，杀菌机，包装机，码垛机等设备均外配。多年以来，在众多的客户项目中积累了丰富的工程经验。根据客户不同的需求和整线各单位实际运行情况进行动态调整，从来有效地提高整线运行效率。



## 包装系统 PACKAGING SYSTEM

**PACK** WHAT YOU WANT

A complete packaging line includes not only bottling but also subsequent secondary packaging and end packaging. The secondary packaging is available in shrink film packaging, carton packaging, carton wrapping, etc. The end packaging can also be mechanical palletizing or robot palletizing.

PHS specializes in wet zone packaging, while the dry zone packaging section integrates industry resources and selects equipment and products from mainstream professional manufacturers.

Depalletizers, Labeling machines, Packaging machines, palletizers and other equipment are all externally equipped.

Over the years, we have accumulated rich engineering experience in numerous customer projects.

Dynamic adjustments are made according to the different needs of customers and the actual operating conditions of each unit of the entire line, which has always effectively improved the operating efficiency of the entire line.



PHS依靠集团公司和兄弟公司及液体包装机械行业的合作伙伴，积累了超过800+实际案例的经验和技能，我们的技术和服务团队提供7\*24小时的服务。我们现在有无菌，超洁净，普通等售后技术团队。国内24小时到达现场，国外72小时到达现场。

多渠道的咨询服务，你可以电话、邮件、社交APP等多个方式与我们沟通。

## 服务支持 SERVICE SUPPORT

PHS relies on partners in the group company and brothers and liquid packaging machinery industries. More than 800+ actual experience accumulation and leading technical teams, our technology and service teams provide 7 \* 24-hour super-first service. Domestic 24 hours arrived at the scene, 72 hours abroad arrived at the scene. Multi-channel consulting services. You can communicate with us in multiple ways such as calls, emails, and social apps.

**SERVICE COMMITMENT:**  
Telephone communication and remote assistance not solve the problem, we will service personnel rushed to the scene within 24 hours to rule out failure, maintenance; Regular customer visits, for customers in the field to solve the problem.

**MAINTENANCE:**  
Senior Service Specialist will send to the customer site for on-site diagnosis for the device, and gives diagnostic report.

**SAFETY STOCK:**  
Our company will fully do the safety stock of the client equipment, spare parts, etc., Do not need to purchase stocks in advance, eliminate the worries of the client.

**CONTRACTUAL MAINTENANCE:**  
Communicate with the client, regular maintenance, according to the month, season, annual inspection.

**USER TRAINING:**  
Provide free training services based on customer needs. Training includes technical training and management training.

### 服务承诺

电话沟通和远程协助解决不了的将在24小时内赶赴客户现场故障排除，维修；定期客户回访，为客户实地解决问题。

### 维护保养

将派遣资深售后服务专员到客户方现场针对设备进行现场诊断，并给出诊断报告。

### 安全库存

我公司将充分做好客户方设备易损件、备件等的安全库存备货，不用客户方提前采购备货，免去客户方的后顾之忧。

### 合约定期维护

与客户方沟通，达成定期维护保养按照月、季、年检三部分充分的、有计划的落实

### 用户培训

根据客户方的需求提供免费的培训服务。培训内容包括技术培训及管理培训。

### 专业性的产品和方案支持

Professional Products and Solutions Support

### 远程服务与快速维护

Remote Service and Fast Maintenance

### 定制产品和方案

Customized Products and Solutions

### 完善的售后服务

Perfect After-sales Service

### 整套系统培训服务

The Entire System Training Services



## 售后服务 AFTER-SALES SERVICE



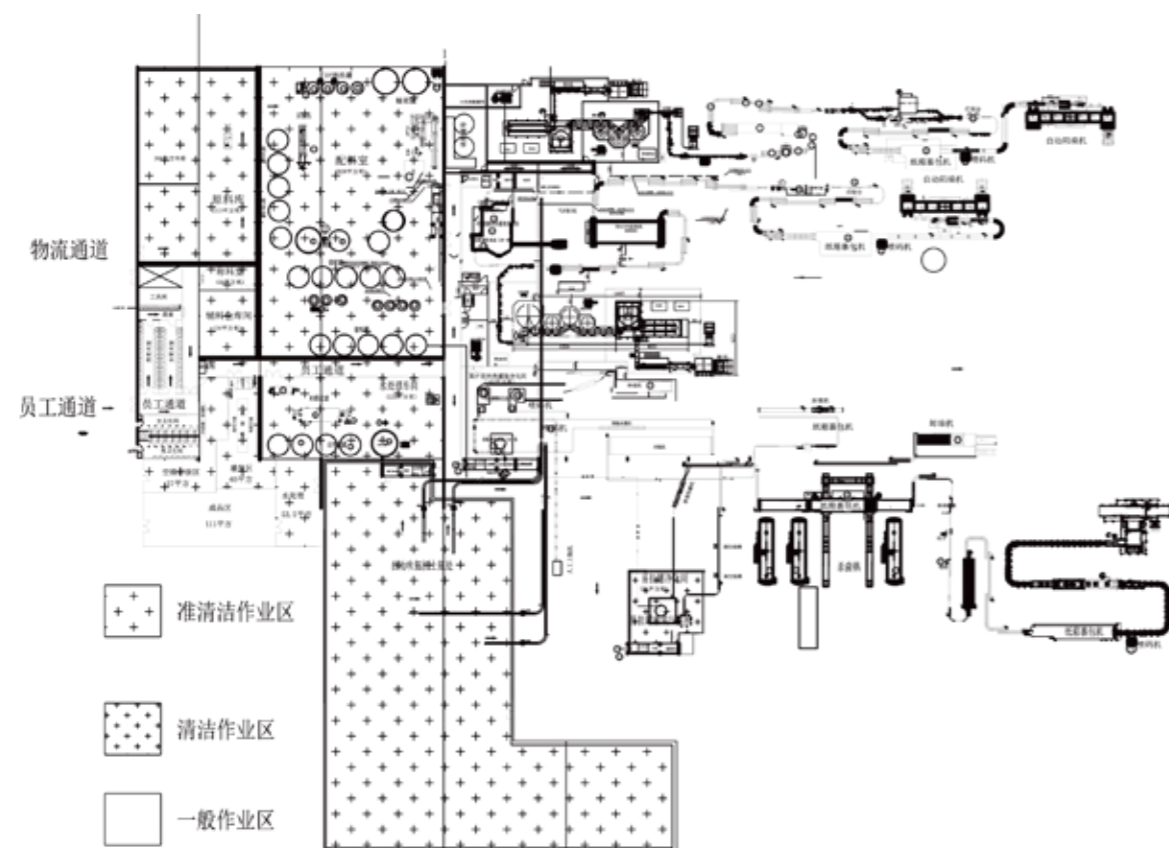
## 整厂设计方案

作为饮料设备的供应商，除了质量，性能，价格，我们更专注于“交付”。

普华盛致力于成为液体饮品和食品生产商的战略合作伙伴，通过专业的设备解决方案，帮您打造技术领先，性能卓越且最具效率的包装生产线，为全球客户提供集成的创新解决方案，以在效率，可靠性，灵活性和节能方面完全满足客户对液体灌装和包装生产和存储的需求。

我们的包装方案涵盖了PET瓶，HDPE瓶，易拉罐，玻璃瓶，无菌砖等包装形式且均具备完善的生产线能力。无论您的产品是瓶装水，桶装水，碳酸饮料，茶饮/果汁，乳制品，酒类，调味品或者日化品，我们均可提供为您量身定制的工艺工程设计方案。

PACK WHAT YOU WANT!



We offer the whole plant turn-key project from product process design, bottles design to the overall layout design of water treatment, pre-processing, bottles blowing, filling, capping, coding, lamp-checking, labeling, conveying, packaging, palletizing and intelligent storage.

We are committed to providing our customers worldwide with integrated innovative solutions capable of fully meeting their demands for liquid filling&packaging production and storage in efficiency, reliability, flexibility and energy saving.

Based on customers' demands&needs, We can provide packaging forms such as PET barrels, PET bottles, HDPE bottles, cans, glass bottles, aseptic bricks and etc. Whether your product is bottled water, bottled water, carbonated drinks, tea / juices, dairy products, wine, spices or cosmetic products, we can provide you with tailor-made process engineering design. Pack what you want.

The solutions devised by PHS materialize in a wide choice of products: from the mechanical fillers, the simplest and proven systems, to the most sophisticated electronic fillers, ultra-clean and aseptic; from the supply of stand alone filling machines to the supply of complete lines.

市场调研及商榷方案  
Analysis & Discussion

根据您的需求和相关产品市场定位，协商包装形式，产能规模，投资规划等提供专业评估建议及方案

工艺设计及设备选型  
Process Design & Equipment Selection

帮您选择最佳工艺，提供最佳的单机设备及辅助设备选型，实现投入利益最大化。

设备生产  
Equipment Production

专业的整厂工程设计团队，最先进的加工装备

运输和安装  
Transport & Installation

800+案例的经验累积，专业高效且经久考验的工程安装队伍

培训与服务  
Training & Services

通过培训，提供员工的技能，确保正确的操作和维护设备，充足的备件供应，迅速的响应的售后服务。

**TAILOR  
COMPLETE SOLUTIONS  
&TURN-KEY PROJECTS**