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INJECTION MOLD  
MACHINERY

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浙江裕盛模塑有限公司  
ZHEJIANG YUSHENG MOLD & MACHINERY MANUFACTORY

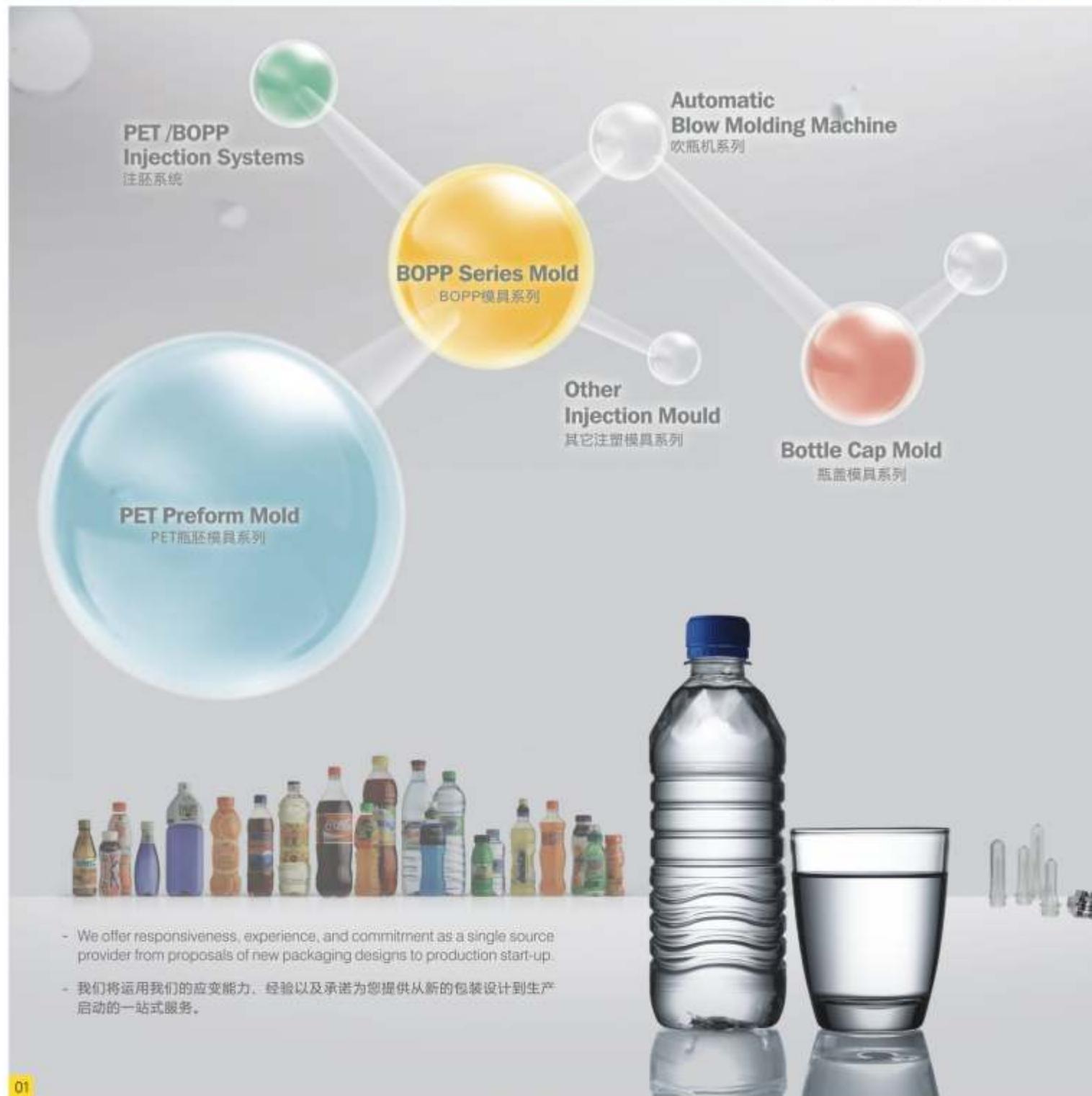
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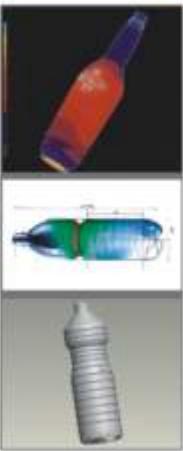
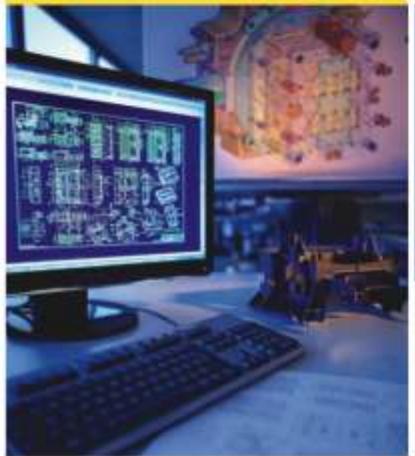
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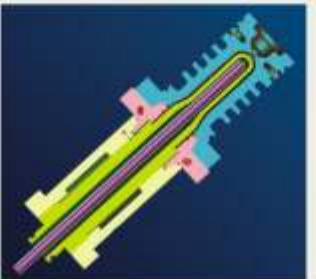


- 浙江黄岩裕盛模型厂创建于1988年12月。
- 至今裕盛在册员工人数已经达到350余人。
- 我们在PET瓶胚模具和热流道领域有着多年的专业经验。
- 裕盛专业研发生产PET/BOPP精密瓶胚模具、瓶盖模具、吹瓶机以及全套注胚系统。
- 在过去的24年中，裕盛迅速发展壮大。长期以来，丰富的从业经验、优良的产品品质和最短的交货时间，使我们逐步成长为同行业的佼佼者。
- 而今，裕盛的产品已经行销海外60余个国家和地区。
- 裕盛始终贯彻“诚信为本，品质至上”的企业精神，追求“品质零故障，用户满意为宗旨”的质量目标。
- 应市场需求，我厂已规模化生产塑料日用品模具、汽车保险杠模具、周转箱模具、系列吹瓶机及全套注胚系统。
- Considering the market requirement, our product range has expanded plastic moulds for household goods, paint barrel, automobile parts and accessories, etc. We also manufacture blow moulding machine and COMPLETE PET injection system.





PCO  
BPF  
BOPP  
M23  
45-40  
G4  
G8



## RESEARCH & INNOVATION

- YUS has more than 30 experienced engineers, more than 50 technicians. With the design software UGS, mouldflow, 3R System and ERP system realized, YUS's high standard rules, rich production and advanced management experience will serve customers on product design, mold design&manufacture and sales-service.
- With deep research&innovation, YUS will be the professional supplier on large plastic molds and precision plastic molds market.
- Commitment to Innovation, continuous Improvement of our products and services to exceed customer expectations, and to be goal of first quality.

## 研发创新

- 公司拥有30多位经验丰富的工程师，50多位技术人才，随着设计软件UGS的二次开发，MoldFlow、3R System、ERP System的应用，公司高标准、高要求、高产出，以及先进管理经验的引进，将为客户在产品开发、项目管理、技术服务、模具设计制造、售后服务等方面达到国际一流的水平。
- 通过研发创新，成为在大型塑胶模具和精密塑胶模具全方位解决方案的供应商。
- 让客户成功，超越客户期望，实现品质第一的目标。



■ Laser Marking System 激光打码系统

■ Imported Digital Projector 投影仪



## BEST QUALITY BASED ON HIGH TECHNOLOGY PRECISION TOOLING EQUIPMENT

YUS MOLD adopts advanced equipment and precise tooling to insure high quality of mold, to shorten the period from product designing to put into production. Meanwhile, we guarantee convenience and prompt of the usage and maintenance of mold.

## 精确控制的制造过程

裕盛模型采用最新设计的设备和精加工技术，从而保证了模具的高质量，以及缩短了从产品设计到投产的时间，同时也保证模具使用和维修既迅速又方便。





### PET PREFORM MOULDS

- Preform injection mould from 1 cavity for wide mouth jar and gallon bottle preform up to 96 cavities narrow neck.
- Tube blank is designed with the help of computer, which surely contributes to the increasing of yield of bottle.
- Employes' internationally advanced two-step dual taper locating technology. Each cavity self-locks independently to ensure low decentration of product.
- Core and cavity are made of special mould steel after preheating treatment in the original factory in Sweden.
- Lip cavity is made of imported nitrated steel, which is of high hardness and long service life, in accordance with the international standard.
- The excellent hot runner design assures uniform heating and greatly improves the quality of plastic product.
- No cutting of gate is employed to reduce the labor intensity; Standard inter-changeable mould components.
- The life of mould is more than 5 million times.

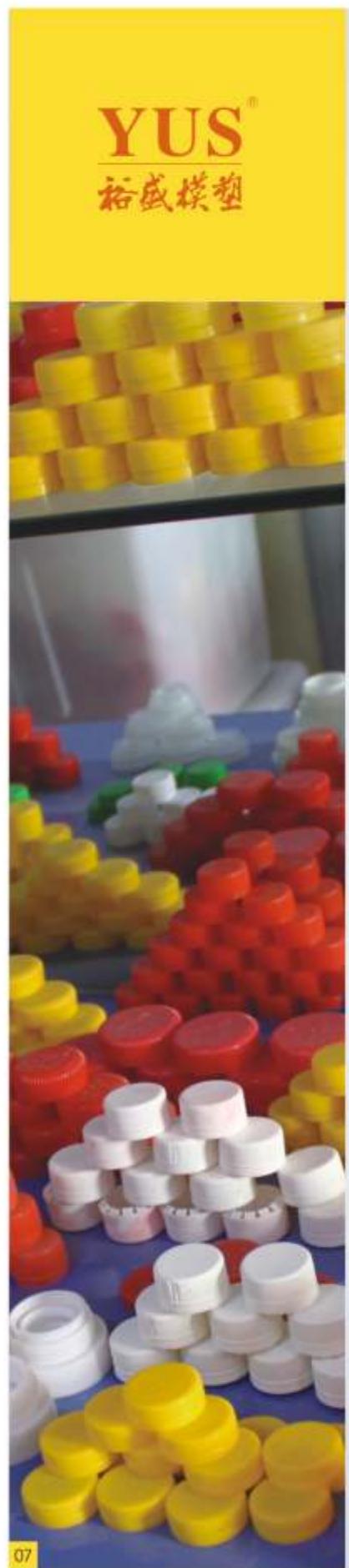


### 注胚模具

- 瓶胚腔数从一出一至一出九十六。
- 瓶胚采用电脑模拟拉伸测试设计,提高吹瓶的成品率。
- 采用世界先进的二级双锥度定位技术,每腔独立自锁,确保模具同心度。
- 模具注腔、注芯选用瑞典原厂预热处理优质专用模具钢制造。
- 螺纹口按国际标准制造, 材料选用进口氮化钢, 硬度高, 使用寿命长。
- 热流道设计先进, 加热温度均匀, 可提高塑料制品质量。
- 免剪浇口, 降低工人劳动强度。
- 模具寿命保证在500万模次以上。

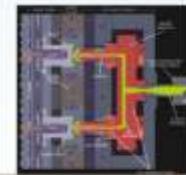
96-Cavity Preform Mould





**YUS**  
裕盛模型

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Injection Mould & Machiney



**YUSHENG MOLD**  
TOP QUALITY MOULDS



### CAP MOULD

- 裕盛生产的瓶盖模具有: 矿泉水盖, 饮料盖, 五加仑盖, 果冻瓶盖, 洗发水翻盖, 各种油瓶易拉盖, 运动盖, 化妆品盖, 木糖醇翻盖, 酒瓶盖及油桶盖等。
- 裕盛可提供1出1至1出72腔的瓶盖模具。
- YUS mold can supply : mineral water cap mould ,beverage cap mould , 5 gallon cap mould, anti-pilfer cap mould, shampoo cap mould, different kinds of oil cap mould , sport cap mould ,cosmetics cap mould , wine cap mould.
- YUS mold can produce over 72 cavities cap mould .We could supply the mould not only in hot runner but also in cold runner .



### 瓶盖模具

- 材料采用进口P20 , 2316等钢材。
- 热流道设计先进合理，每腔独立温控加热，温度均匀。
- 每一模腔及横芯都有独立冷却系统，缩短生产周期。
- 模腔可更换，方便改变瓶盖商标。



- The cap mould is designed with 3D computer drawing and therefore the product yield rate is enhanced.
- The cap mould is made of high grade steels from Japan and imported P20 and 2316 steel etc.
- The cap mould is designed with advanced second-level taper positioning technology and slide type independent self-locking, hence the concentricity of the product is guaranteed.
- Cap mould adopts advanced and reasonable design, each cavity having independent temperature controller & heating system, which boasts an even heating temperature and keeps product with reliable and stable quality.
- Cap mould has independent condensation system in each mould cavity and mould core.
- Mould cavity is replaceable, so that the label atop can be changed.



### BOPP SERIES MOULD

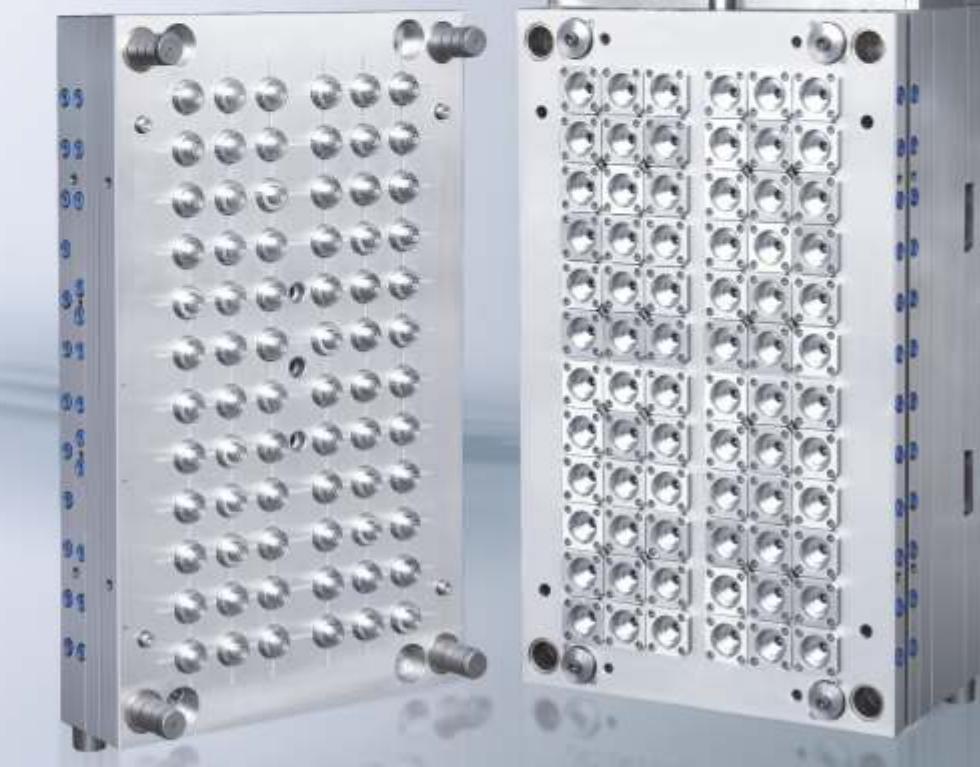
- 裕盛模具所制作的各种盖模，模具寿命高达500万模。
- 通常我们成型部件选用一胜百S136，并由原厂热处理至52度。



### 2012 New<sup>®</sup>

72-Cavity BOPP Mould

We provide the fastest delivery of molds and services. YUS molds are the easiest to maintain (in and out of the injection machine), in the industry. Many of our customers rate our molds the best for maximizing machine uptime.



- 目前我们能提供72腔内的各种热流道医药用瓶盖模具。  
公司拥有超过600套该类模具的制作经验。

**Power saving**

- Save power 30%-60%

**High Speed**

- Increase 20% performance capacity by using variable displacement pump.

**Oil Saving**

- Using high performance filter device to increase using life of hydraulic oil.

**Water Saving**

- No overflowing heating, low oil temperature saves cooling water, and increases the using life of sealing elements.



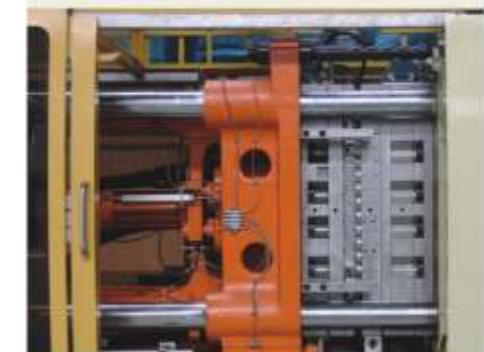
## 高效PET/PP注胚系统

### HIGH-EFFICIENT PET & PP INJECTION SYSTEMS



#### 裕盛，将注塑机变成了「智能化机器」

我公司的32-72腔的高效PET和PP注胚系统的设计是吸取国外多家知名品牌的注胚成型机的优点，结合我们的设计思路，全新开发的一种高效节能PET和PP专用机。



### ROBOT

YUS robot systems are ideally suited for applications requiring compatibility with existing and new tooling, and for preforms with relatively thin walls. When combined with YUS's multi-position take-off plates and cooling technologies, these systems offer:

- Fast cycle times
- Quality performs
- Reliable operation





### Two-Stage Injection

- By uncoupling the extrusion and injection functions, YUS's two stage PET injection design provides a number of advantages over conventional reciprocating screw designs including



SHUT-OFF NOZZLE PREFORM MOULD DIMENSION  
(REFERENCE FOR INSTALLATION)

MODEL	HEIGHT(MM)	WIDTH(MM)	THICKNESS(MM)	WEIGHT(KG)
4-CAVITY	345	380	430	370
6-CAVITY	410	380	466	440
8-CAVITY	475	380	466	510
12-CAVITY	605	380	466	650
16-CAVITY	720	380	466	800
20-CAVITY	850	380	466	950
24-CAVITY	775	600	460	1250
32-CAVITY	825	600	480	1850
48-CAVITY	1085	630	520	2370
56-CAVITY	1200	630	520	2765
72-CAVITY	1085	800	500	3500

Re: Above data standard indication for 18g. 30/25 preform mould. Specification are subject to change without notice.

- Homogeneous melt: from continuous plasticizing throughout the molding cycle
- High energy efficiency: achieved through the use of smaller screw sizes
- Special PET screw designs: special screws provide more flexibility to mold a wide range of PET resins and colors
- Uniform melt to each cavity: optional melt channel re-mixers gently mix the molten PET stream before injection
- Minimal AA generation: on-line control of screw rotation, transfer speeds, and injection and hold functions minimize acetaldehyde levels for high quality preforms

ITEM	UNIT	YUS-32	YUSPET-48 A	YUSPET-48B	YUSPET-56A	YUSPET-56B	YUSPET-72A	YUSPET-72B
<b>注射装置 INJECTION UNIT</b>								
螺杆长径比 Screw L/D Ratio	L/D	26	26	26	26	26	26	26
射胶压力 Injection Pressure	Kgf/cm <sup>2</sup>	1080	875	875	875	875	875	875
外型尺寸(长x宽x高) Machine Size(L*W*H)	mm	8650x3600x2200	9100x3790x2240	9100x3790x2240	9100x3790x2240	9100x3790x2240	11080x4400x2500	11080x4400x2500
理论射出容量(最大) Theory Shot Volume(Max)	cm <sup>3</sup>	1700	1815	2905	1815	2905	2905	4069
射出量 Shot Weight(ps)	g	2040	2178	3486	2178	3486	3486	5426
	ozs	72	77	123	77	123	123	191
<b>合模装置 CLAMPING UNIT</b>								
锁模力 Clamping Force	T	280	360	360	360	360	500	500
移模行程 Clamping Stroke	mm	545	645	645	645	645	680	680
最大/小模厚 Max/Min Thickness of Mould	mm	280~700	300~720	300~720	300~720	300~720	300~820	300~820
导杆间距(宽x高) Space Between Tie Bars(W*H)	mm	610x610	660x860	660x860	660x860	660x860	820x820	820x820
顶出行程 Ejector Stroke	mm	150	180	180	180	180	200	200
顶出力 Ejector Force	T	10	12	12	12	12	21	21
顶出杆根数 No. of Ejector Pins	PCS	5	5	5	5	5	13	13
最高系统压力 Max Pressure of System	Kg/cm <sup>2</sup>	140	140	140	140	140	140	140
<b>注胚模具 Injection Mould</b>								
腔数(最大) Cavity(Max)	PCS	32	48	48	56	56	72	72
最大螺口直径(最大) Neck of Bottle(Max)	mm	42	42	42	42	42	42	42
最大管胚长度(最大) Length of Preform(Max)	mm	190	190	190	190	190	220	220
最大管胚重量(最大) Weight of Preform(Max)	g	45	35	45	30	45	30	45
模具形式 Form of Mould	*				气动针阀式热流道 Pneumatic pin-valve gate hot-runner			
<b>电气系统 Power Unit</b>								
马达功率 Pump Motor Power	KW	45	82	92	82	92	120	130
机械手功率 Robot Power	KW	12	12	12	12	12	14	14
温度控制器 No. of Heater Zones(0~400°C)	set	33+8	49+10	49+10	49+10	49+10	73+13	73+13
熔胶电热容量 Heater Input Capacity	KW	40	53	58	58	58	62	62
模具加热容量 Mould Heater Capacity	KW	38	51	51	51	51	70	70
<b>自动取胚机械手 Auto Manipulator</b>								
机械手真空吸头 Manipulator	Cav.	96	144	144	168	168	216	216
瓶胚冷却装置 Cooling Form	Cav.	96	144	144	168	168	216	216
<b>外配要求 Other Request</b>								
电源(交流三相四线制)	V	380	380	380	380	380	380	380
Electric Power supply (3-phase AC)	KW	130	155	155	180	193	235	245
冷冻水 Chilling Water	°C	5~15	5~15	5~15	5~15	5~15	5~15	5~15
	Mpa	0.45	0.45	0.45	0.45	0.45	0.45	0.45
	L/min	420	600	600	600	700	400	400
冷却水 Cooling Water	°C	30~55	30~55	30~55	30~55	30~55	30~55	30~55
	Mpa	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	L/min	100	200	200	200	200	200	200
压缩空气 Compressed Air	Mpa	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9
	L/min	570	800	800	1000	1000	1200	1200
生产率(最大) Throughput (Max)	Pcs/h	9600	17000	17000	20000	20000	23000	23000

备注：生产率以冷冻水温度5~8°C。Remark: The production is calculated under the 5~8°C chilling water condition.

◆以上数据可能不被研发改造，仅供参考。若有变更，恕不另行通知。All specifications and designs are subject to change without notice.

全自动吹瓶机系列  
**FULLY-AUTOMATIC  
BLOW MOLDING MACHINE**

- 采用先进的微电脑控制系统，性能稳定；
- 采用红外线灯管加温，穿透力强，瓶胚自转受热，轨道公转，加热均匀，快速可靠；
- 加热区内的灯管、反射板宽度及高度均可调节，以适合不同结构的瓶胚的加温，并有自动排温装置，以保证烘道的恒温；
- 每个机械动作都有安全自锁装置，当某个工序出现故障时，程序将自动切换到安全状态；
- 各动作由气缸驱动，不采用油泵，具有无污染，噪音低等优点；
- 气路设计将动作和吹气分为三部份，以满足吹瓶动作不同气压的需求；
- 生产工艺流程全部自动化完成，具有投资省、效率高、操作方便、维修简单、安全等优点；
- 冷却系统达到理想的冷却效果；
- 成瓶报废率低于0.2%。



- Compact space design for convenience of mold-conversion, repairing, and maintenance.
- Intact rotating robot grip with linear guider for right access, rapid motion; reducing adjustment and maintenance time.
- Through finite element analysis to optimize modular design for reducing machine wearing and moving inertia.
- Operating machine through touch panel; program protected by code lock.

**SPECIFICATION OF PET STRETCH BLOW MOULDING MACHINE**

TYPE	ITEM	UNIT	YUS-PN3000	YUS-PN6000
MOLDING	Clamping Force	Kg	16000	48000
	Clamping Stroke	mm	110	140
	Stretching Stroke	mm	240	240
	Bottom Stroke	mm	80	50
	Cavity Pitch	mm	76.2	76.2
	Number of Cavities	-	3	6
CONTAINER	Max. Container Volume	Ltr.	0.6	0.6
	Neck Dia. Range	mm	28	18-30
	Max. Container Diameter	mm	68	68
	Max. Container Height	mm	240	240
	Carriage Unit	pcs	60	108
Theoretical output	-	bph	3000	6000
Elec system	Total Power	KW	25	40
	Max. Heating Power	KW	22	36
	Operating Pressure	Kg/cm <sup>2</sup>	8	8
Air system	Air Consuming	Ltr./min	1800	2000
	Blowing Pressure	Kg/cm <sup>2</sup>	35	35
	Air Consuming	Ltr/min	2400	4900
	Operating Pressure	Kg/cm <sup>2</sup>	5-6	5-6
Chiller	Temperature	°C	10-12	10-12
	Consuming	Kcal/hr	5400	7600
	Flow Rate	Ltr/min	30	45
Cooling water	Operating Pressure	Kg/cm <sup>2</sup>	5-6	5-6
	Temperature	°C	25	25
	Consuming	Kcal/hr	30000	45000
	Flow Rate	Ltr/min	100	150
Machine	Size (LxWxH)	mm	1750x1850x2500	4150x1850x2500
	Weight	kg	2500	6500

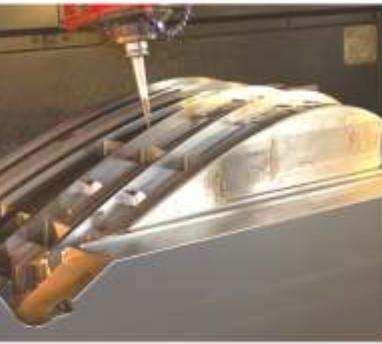
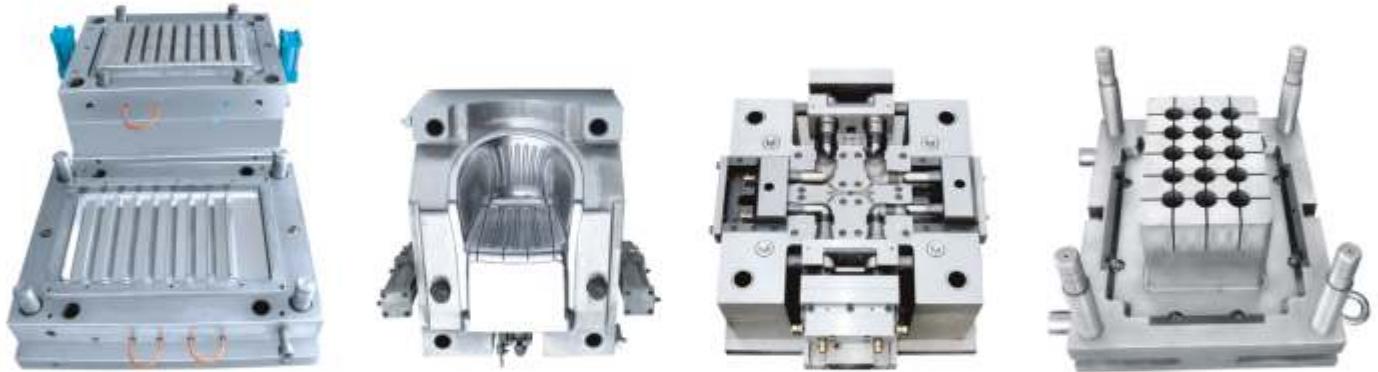
\*All data standard indication for 0.6L Output depends upon bottle shape and preform quality. Specifications are subject to change with out notice.

◆以上数据可能不断研发改进，仅供参考，若有变更，恕不另行通知。All specifications and designs are subject to change without notice.



其它类注塑模具  
**Injection Mould**

- Considering the market requirement, our product range has expanded plastic molds for household goods, paint barrel, automobile parts and accessories, motorcycle shells, etc. We also produce bottle blowing machine for beverage, edible oil, etc.



- We tried to blend Arts & technologies in the manufacturing of plastic injection moulds. We have been getting unconditional continuing supports from our beloved and valuable customers. It is their trust in our Mould Quality, Performance, Service and Value, which has actually allowed YUS Mould to grow with them and part of their success.

