



Better Service For You!

PET BLOW MOLDING MACHINE



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SHANGHAI RUNWAY GLOBAL CO.,LTD
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生产与研发

PRODUCTION AND R & D

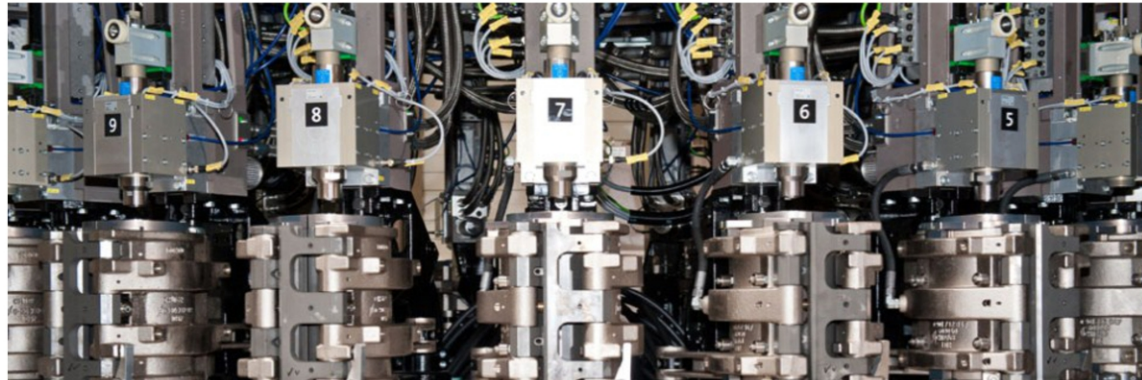
戎威致力于科技前沿核心技术的研发与应用，以国际领先设计推动企业发展，使设计研发始终保持在世界行业高端产品行列。

Devoting to research and development as well as application of the most advanced techniques, RUNWAY moves on together with her competitive design concept that ranks in the leading level Of packaging equipment industry all over the world.



研发与检测设备

R & D and testing equipment



全自动旋转式吹瓶机

AUTOMATIC ROTARY BLOWING MACHINE

汇集多项国家专利，吸收国内外最先进的制瓶技术，融合为RWRB系列全自动高速旋转式吹瓶机。完美的设计，精巧的结构，国际高端的电气控制系统，使其整机性能极其稳定。生产全过程：进料、理坯、送坯、加温、传输、拉伸、吹气、冷却、成品输送均由电脑自动监控，无需人手辅助，自动化程度高，生产成本低，成品率高达99.9%。成为国内著名饮品包装企业的首选产品。

Absorbing advantages of the leading bottle-blowing technology, we have developed RWRB series automatic rotary blowing machine, which have been awarded patents by government. The whole machine is very steady with perfect designing, precision structure and electrical controlling system imported from leading enterprises. All the processes, feeding preform, collating preform, sending preform, heating, transmitting, stretching, blowing, cooling, production transmitting are all controlled by computer automatically without manual. With high automatic & low cost, this series of machine has become the first choice of many famous beverage companies, providing them 99.9% effective rate.

先进的加工设备和严格的品质控制是我们企业发展的保障
Precision machining devices strict quality control can assure us to get more progress!



全自动旋转式吹瓶机

AUTOMATIC ROTARY BLOWING MACHINE

RWRB 系列全自动旋转式PET吹瓶机

RWRB Series Automatic Rotary PET Blow Molding Machine



特性:

- 环保, 节能, 省时, 高效
- 单机最大产量每小时43200瓶
- 可实现与灌装设备同程连接

Features:

- Protecting the environment ,Saving the energy & time, efficiently.
- The maximum output of each machine is 43200 bottles/hour.
- The Automatic Handle-bottle blowing Machine can be connected with the filling equipment in the same process.

戎威吹瓶系统系列产品

RUNWAY RWRB Series Blowing Machine 10-30B

环保 节能 高效
Environment protection and energy efficiency



全自动旋转式大模架吹瓶机

RWRB SERIES AUTOMATIC ROTARY PET BLOW MOLDING MACHINE

RWRB 系列全自动旋转式PET吹瓶机

RWRB Series Automatic Rotary PET Blow Molding Machine

适用于生产2.5升以下的各种PET液态灌装瓶,
正常产能单腔1800PCS/小时,
整机最高产量可达43200PCS/小时。

PET liquid filling bottles, for production of 2.5 liters normal
capacity single chamber 1800PCS / hour, the whole
maximum yield of up to 43200 PCS / hour.

RUNWAY

BLOWING
MACHINES

PET

高速吹瓶灌装封盖一体机

BLOWING-FILLING-CAPPING BLOCK



吹灌一体机

24000BPH&40000BPH PET COMBI-BLOCK



吹灌一体机在一台设备上集成吹瓶、灌装、封盖功能，适用于RWRB系列吹瓶机实现多个单元设备一体化控制和生产，提高整线生产效率，降低投资成本能耗和设备维护成本。我有500ml包装的两种速度的机型：24000BPH&40000BPH。Combi machine in a device integrated blowing, filling and capping functions, applies the RWRB series blow molding machine to achieve integration, control and production of multiple unit equipment, to improve the efficiency of the whole line, reduce the energy consumption of the cost of investment and equipment maintenance costs. We have 2 type speed machines in 24000BPH&40000BPH for 500ml PET bottle.



RWRB系列全自动旋转式PET吹瓶机**6Y**
RWRB Series Automatic Rotary PET Blow Molding Machine 6Y

产量：**6000** PCS/小时
Production: 6000 PCS / hour

适用于生产5升以下的各种PET液态灌装瓶（常用于生产5L油瓶），正常产能单腔1000PCS/小时，整机最高产量可达6000 PCS/小时。对于大容量，产能要求高的企业本机是理想的选择。

Apply to the production of 5 liters PET liquid filling bottles (commonly used in the production of 5L oil bottle), the normal capacity of the single-chamber 1000PCS/hour, the whole maximum yield of up to 6000pcs/hour. Capacity requirements for high capacity companies with high native is the ideal choice.



RUNWAY

PLASTIC MACHINE



全自动旋转吹瓶机工艺过程 BLOW TECHNICAL PROCESS

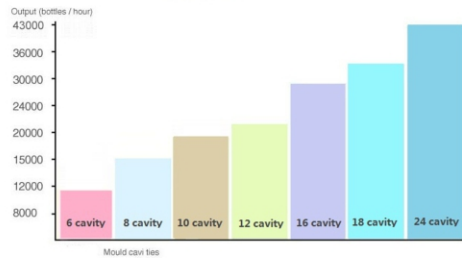


应用范围 APPLICATIONS

适用于产量大，品质要求高的纯净水瓶，矿泉水瓶，饮料瓶，碳酸水瓶，高温热灌装瓶，食用油瓶，医用大输液PP药瓶等行业的生产。成为国内外著名饮品包装企业的首选产品。

This series machines are suitable to produce high quality purified water bottles, mineral water bottles, beverage bottles, CSD bottles, hot filling bottles, oil bottles and PP medicine bottles. They have become the first choice of the famous water

RWRB AUTOMATIC BLOWING MACHINE



(1) 理坯机送坯、理坯

瓶坯从贮存斗提升输送至理坯机排列成序。

PREFORMS' LOADING AND SCHEDULELING

Preforms are loaded and elevated from preforms storage to scheduler into line.

(2) 送坯进加热区

送坯室将瓶坯送到旋转头经翻轮轨道送入加热炉加热。

PREFORMS GOING INTO HEATING AREA

Preforms are delivered to the ignoble by the star wheel and turned over through trail to the oven.

(3) 加热炉加热

红外线多层灯管加热。各调节参数均可电脑设定，通风冷却装置能充分保证瓶坯加热和牙口的冷却稳定。

OVEN' SHEATING

With many layers infrared lamps heating, all the parameters can be set on the computer, the air cooling device guarantees preforms' heating and neck's cooling.

(4) 瓶坯温度控制

加热的温控系统分别有手动和自动两种模式。当选择手动模式时，加热灯管的输出比将会按照人为设定好的参数进行控制；当选择自动模式时，在加热的瓶坯出口处设有红外线温度传感器用于检测瓶坯温度。如瓶坯温度和预设值比较有误差就会反馈到电脑，电脑会自动调节加热灯管的输出比例，最终使瓶坯的实际温度和预设值一致，不受外界温度变化的影响。

PREFORMS' TEMPERATURE CONTROLLING

Infrared temperature sensor in the exit of oven can check the temperature of preforms, if the temperature of preforms is different from pre-set point, the computer can receive feedback and then adjust automatically to reach coincidence.

(5) 送坯至模具

机械手将加热后的瓶坯同步送到吹瓶模具中。

PREFORMS DELIVERING TO MOLDS

After heating, preforms are delivered to the blowing molds by transfer arm synchronously.

(6) 旋转吹瓶

机身在旋转中完成封口、拉伸、补缩吹气、预吹气、高压吹气、冷却成型、气体回收等工艺流程。

ROTATING BLOW BOTTLES

during machine's rotating, preforms are stretched, pre-blown, high pressure air blown into bottles.

(7) 出瓶检测

机械手把瓶子从模具取出，通过电子枪检测瓶坯成型不完整的瓶子自动弹出。

BOTTLES CHECKING

Bottles are fetched by transfer arm, disqualified bottles will be ejected by electrical checking system.

(8) 出瓶

机械手将合格的瓶子送到出瓶风送装置向下一工序传递。

FINISHED BOTTLES DELIVERING

Finished bottles are delivered from air conveyor device to the next procedure by transfer arm.

PET 瓶胚注塑模具

PET PREFORM INJECTION MOLD



• 144腔全自动阀针模具
• 144cavities
• valve-pin injection mould

• 72腔全自动阀针模具
• 72cavities
• valve-pin injection mould

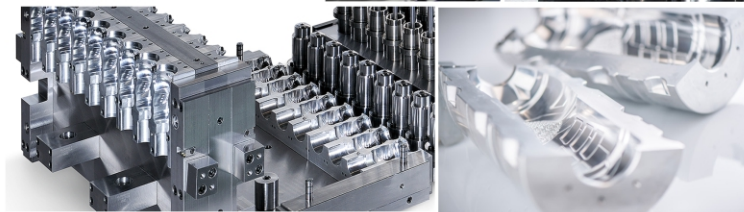
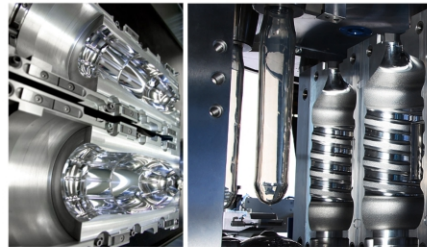
• 48腔全自动阀针模具
• 48cavities
• valve-pin injection mould

PET 吹瓶成型模具

PET BLOWING MOLD

专业制造PET吹瓶机成型模具。
配套于国内外知名品牌公司SIDEL、
KRONES、SIG、SIPA、ASB、HUSKY等。

Professional manufacturing PET、bottle blown
machine mould. Supporting the well-known
brands SIDEL、KRONES、SIG、SIPA、ASB、
HUSKY so.



提供整厂设计及工程方案

PROVIDING ENTIRE PLANT DESIGN AND ENGINEERING SOLUTIONS

为您提供PET注坯系统整线解决方案；专业的灌装、贴标等配套技术和方案优化；更加适合您产品的实际需要与品质提升。

Providing the whole PET injection and blowing system solutions; professional filling and labelling technical support; satisfying your actual needs and improving your products quality.



专业技术实现 整线配套方案标准化

PROFESSIONAL TECHNOLOGY SUPPORTING THE
STANDARIZATION OF THE ENTIRE PRODUCTION LINE SOLUTION

戎威作为中国PET注、拉、吹、中空塑料行业的设备和模具制造商，一直以来为国内外众多著名品牌企业提供符合国内外同类标准的整线配套方案和技术支持。

As the best manufacturer of PET blowing machine and molds in china, RUNWAY Group has provided the excellent production line solutions and professional technical supports for many famous enterprises abroad and domestic.



RUNWAY

BLOWING
MACHINE

RUNWAY RWRB SERIES AUTOMATIC ROTARY BLOWING MOLD MACHINE DATA SHEET

Mach.Type Technical Description		Rotation Radius R650					Rotation Radius R728		Rotation Radius R950							Rotation Radius R1100						Rotation Radius R1350				Rotation Radius R1450						
		6Y	6B	6H	8B	8H	10B	10H	12B	12H	14B	14H	14x	16x	18x	16B	16H	18B	18H	20x	22x	24x	20B	20H	22B	22H	24B	24H				
Host Parameters	Mould Cavities (N)	6	6	6	8	8	10	10	12	12	14	14	14	16	18	16	16	18	18	20	22	24	20	20	22	22	24	24				
	MAX Diameter for Bottle Body(mm)	180	110	110	110	110	110	110	110	110	110	110	90	90	90	110	110	110	110	90	90	90	110	110	110	110	110	110				
	Bottle Height (mm)	330	330	330	330	330	330	330	330	330	330	330	260	260	260	330	330	330	330	260	260	260	330	330	330	330	330	330				
	MAX Diameter for Bottle Mouth (mm)	55	38	38	38	38	38	385	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38				
	MAX Bottle Capacity	5	2.5	1.5	2.5	1.5	2.5	1.5	2.5	1.5	2.5	1.5	1	1	1	2.5	1.5	2.5	1.5	1	1	1	2.5	1.5	2.5	1.5	2.5	1.5				
	Output 0.5L (BPH)	\	10800	7800	14400	10400	18000	13000	21600	15600	25200	18200	25200	28800	32400	28800	20800	32400	23400	36000	39600	43200	36000	26000	39600	28600	43200	31200				
	Output 1.5L (BPH)	\	8400	4800	11200	6400	14000	8000	16800	9600	19600	11200	\	\	\	22400	12800	25200	14400	\	\	\	28000	16000	30800	17600	33600	19200				
	Output 2L (BPH)	\	7200	\	9600	\	12000	\	14400	\	16800	\	\	\	\	19200	\	21600	\	\	\	\	24000	\	26400	\	28800	\				
Output 5L (BPH)	6000	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\					
Heating System	Heat Oven(zone / pitch)	5zone/60	4zone/50	4zone/50	4zone/50	4zone/50	4zone/40	4zone/40	5zone/40	5zone/40	5zone/40	5zone/40	5zone/40	6zone/40	7zone/40	6zone/40	6zone/40	7zone/40	7zone/40	8zone/40	9zone/40	9zone/40	8zone/40	8zone/40	9zone/40	9zone/40	9zone/40	9zone/40				
	Heating Lamp(according to the preform)	10×9+4	8×9+4	8×8+4	8×9+4	8×8+4	8×9+4	8×8+4	10×9+4	10×8+4	10×9+4	10×8+4	10×7+4	12×7+4	14×7+4	12×9+4	12×8+4	14×9+4	14×8+4	16×7+4	18×7+4	18×7+4	16×9+4	16×8+4	18×9+4	18×8+4	18×9+4	18×9+4				
Equipment Dimensions (bare-metal)	BMM (L×W×H)	2150×2340×3030	2230×1950×3050	2230×1950×3050	2230×1950×3050	2230×1950×3050	2170×2780×3050	2170×2780×3050	2660×3260×3010	2660×3260×3010	2660×3260×3010	2660×3260×3010	2660×3260×3010	2660×3260×3010	2660×3260×3010	2660×3260×3010	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050	2940×3588×3050				
	Weight (Kg)	8000	7300	7300	7800	7800	8400	8400	11000	11000	12000	12000	10500	10800	11100	14000	14000	15000	15000	13100	13400	13700	19000	19000	19340	19340	20300	20300				
	Unscrambler (L×W×H)	6480×4900×3840	4717×4823×3850	4717×4823×3850	4717×4823×3850	4717×4823×3850	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840	6480×4900×3840				
	Weight (Kg)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000				
Power requirements	Voltage (V)	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380					
	Frequency (Hz)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50					
	Total Power (KW)	205	170	154	170	154	170	154	210	190	210	190	171	201	231	260	236	299	270	273	303	303	337	305	375	339	375	339				
	Operation Power	94	75	72	80	78	85	85	95	96	110	105	103	120	138	125	118	135	130	150	167	180	152	146	168	165	185	176				
Operating Pressure	Lower Pressure(bar)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7					
	High Pressure (bar)	35	30	40	30	40	30	40	30	40	30	40	30	30	30	30	40	30	40	30	30	30	30	40	30	40	30	40				
Blowing Pressure	Filter Accuracy	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u	0.01u					
	Air Operation Capacity (m3/min)	20	6	14	7.5	18	9.5	22	11	27	13	31	13	15	16.5	15	36	16.5	40	18	20	22	18	44	20	48	22	53				
	Chiller	10HP	10HP	5HP	10HP	5HP	15HP	5HP	15HP	5HP	15HP	5HP	15HP	20HP	20HP	20HP	5HP	20HP	5HP	25HP	25HP	30HP	25HP	5HP	25HP	5HP	30HP	5HP				
Auxiliary Equipment	Cooling Tower	40					50		60			70			80		100		80		100		120		150		100		120		150	

Notice:

1. We can design&produce blowing mold machine as the customer's electricity requirements or other requirements;
2. The bottle produce capacity depends on the preform shape, thickness, the design of bottle, the quality of PET material and other factors;
3. We reserve the right to change the design due to improvement in quality, development or production requirements without prior notice.

BLOWING MACHINE

Fully-auto Pre-insert Handle Blowing Mold Machine



1.General Description

BBMH-2 automatic pre-insert handle blowing mold machine adopts our most advanced blowing technologies. This machine is a fully automatic, high intelligent, stable and reliable blowing mold machine, with simple structure, and low energy consumption. It is very popular and well used in food oil, soy sauce, cooking wine, beverages, cosmetics, pharmaceutical industry.



2.Specification of BBM-2

COMPONENT	ITEM	DATA
Main Data Sheet	Cav. No	2
	Central distance	150mm
	Bottle diameter	Φ50-165mm
	Max.bottle height	<350mm
	Neck size	Φ30-Φ50mm
	5L Produce Capacity	850BPH-1000BPH
	1.5L-3L Produce Capacity	1000BPH-1200BPH
	Qualified rate	99.5%
Electrical system	Voltage	AC 220/380V
	Frequency	50/60Hz
	Service Motor Power	40-45kw/h
	Total power	75kw
Air system	Operating air pressure	8~10bar
	Low pressure air consumption	2.5~3.0 m ³ /min
	Blowing air pressure	26~35bar
	High pressure air consumption	2.5-3.0 m ³ /min
Cooling water (temp.≤18℃)	Pressure	2bar
	Water flow	2m ³ /h
Weight	Total	6T
Machine size	Main machine(L×W×H)	4500mm×2350mm×2100mm
	Preform unscrambler(L×W×H)	2300mm×1900mm×2200mm
	Layout(L×W×H)	6500mm×4200mm×3300mm

Note:

1. We can design&produce blowing mold machine as the customer's electricity requirements or other requirements;
2. The bottle produce capacity depends on the preform shape, thickness, the design of bottle, the quality of PET material and other factors.
3. We reserve the right to change the design due to improvement in quality, development or production requirements without prior notice.

Fully-auto Post-insert Handle Machine



I AHIM Brief Instruction

AHIM fully-auto post-insert handle machine adopts our most advanced blowing technologies. This machine is a fully automatic, high intelligent, stable and reliable blowing machine, with simple structure, and low energy consumption. It is very popular and well used in food, beverages, cosmetics, pharmaceutical industry.

II Function and advantage

1. Human-interface control, easy to operate;
2. Bottles in and out via worm wheel like rotary machine;
3. Automatic bottles unscrambler. Make sure bottles are in the right direction by conveyor belt or rotation;
4. Intelligent test:no handles, no bottles.vice verse.
5. Arranging handles automatically by vibration plate.
6. Conveying handles to vibration plate automatically, after that, transporting handles to next procedure according to its number;
7. Right handles go into curve by conveying belt. And there is cylinder in the corner of curve to prevent handles from sticking.
8. There's an electrical eye to check whether handle could go into positioning plate or not. If there isn't bottles, handle would not come;
9. Promoting handles to the upper pits of bottles-in by rail theory
10. When handles go into upper pits, apical plate will put handle to down pits to finish inserting handles.
11. The place that touch bottles is stainless steel or plastic, which is pollution-free.

III Main Parameter

Component	Item	AHIM-30HJ
bottles	number	30
	diameter	160-190mm
	height	≤450mm
	2.5L capacity	14000-15000BPH
	Qualified rate	99-99.5%
Air	Operation pressure	4-6bar
	Low pressure air consumption	4.0~5.0m ³ /min
Electricity	Total power	6KW
	Phase	Triphase,50HZ
Weight	Main machine\heating machine\electricity controller	7t
	Main machine(L×W×H)	2000mm×2000mm×1800mm
Dimension	Vibration plate(L×W×H)	2100mm×1500mm×2500mm
	Conveying belt(L)	3500mm
	elevator(L)	3000mm
	Layout(L×W)	11700mm×4000mm

IV Key Parts List

NAME	COUNTRY OF MAKER	BRAND	REMARK
Touch screen	Germany	SIEMENS	
PLC	Japan, Germany	MITSUBISHI ,SIEMENS	
Main motor	Germany	SEW	
Servo drive	Japan	MITSUBISHI	
Power switch	France	Schneider	
Valve	Germany	REXROTH	
cylinder	Japan, Germany	SMC, REXROTH	

Note:

1. We can design&produce this machine as the customer's electricity requirements or other requirements;
2. We reserve the right to change the design due to improvement in quality, development or production requirements without prior notice.



Better Service For You!

SHANGHAI RUNWAY GLOBAL CO.,LTD RUNWAY (HONGKONG) GROUP LTD

The Most Reliable PET Blowing Mold
Machine Manufacturer Made in China

Our Customers



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