



PET 瓶回收清洗线系统

PET BOTTLE RECYCLING SYSTEM



BoReTech®
PET Recycling Equipment

浙江宝绿特环保技术工程有限公司
PROFESSIONAL PET BOTTLE RECYCLING SYSTEM SUPPLIER

www.bo-re-tech.com

工程案例 \ Projects

截至目前，全球超过130条宝绿特清洗线在运行。全球每年超过120万吨再生 PET 瓶片源于宝绿特设备。宝绿特产品主要出口美国、墨西哥、日本、乌克兰、乌兹别克斯坦、摩洛哥、智利、巴拉圭、马来西亚、印尼、印度、巴基斯坦、津巴布韦、苏丹、伊朗、沙特、阿联酋等二十几个国家和地区，并逐年扩大市场份额。

So far, there are more than 130 BoReTech PET bottle recycling lines in operation around the world. There are more than 1,200,000 tons of recycled PET flakes produced from BoReTech equipment around the world annually. Our production lines are mainly sold to the USA, Mexico, Japan, Ukraine, Uzbekistan, Morocco, Chile, Paraguay, Malaysia, Indonesia, India, Pakistan, Zimbabwe, Sudan, Iran, Saudi Arabia, UAE, and other countries and regions and sold more and more.



中国 China



印尼 Indonesia



厄瓜多尔 Ecuador



沙特阿拉伯 Saudi Arabia



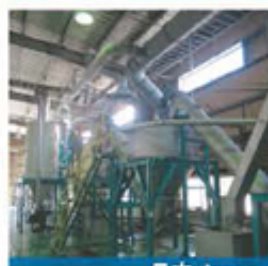
中国 China



乌克兰 Ukraine



乌兹别克斯坦 Uzbekistan



日本 Japan



墨西哥 Mexico



墨西哥 Mexico



印度 India



伊朗 Iran



摩洛哥 Morocco



印度 India



美国 USA



美国 USA

We wish you to be our next cooperater!

公司简介 \ Company Profile

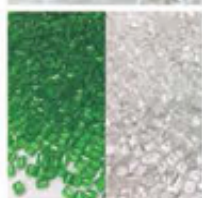
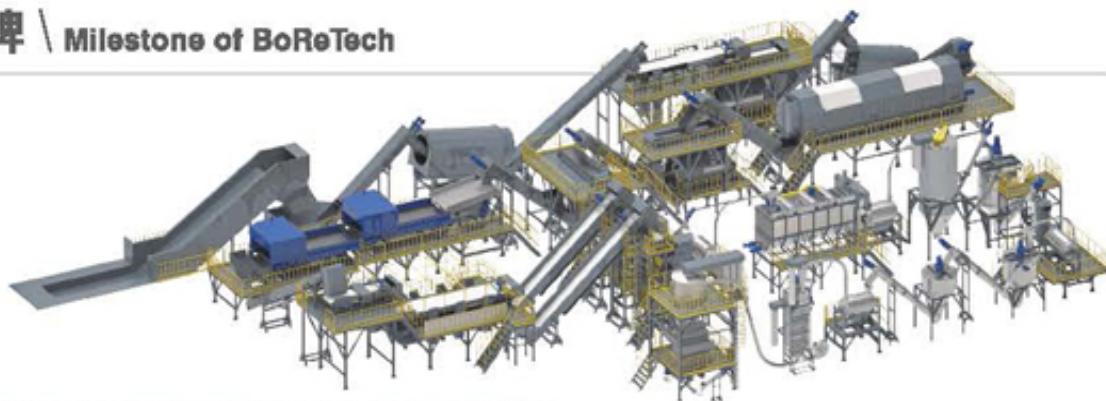
浙江宝绿特环保技术工程有限公司是集生产，研发，工程，设备供货商于一体的资源再生环保工程公司。企业专精于PET瓶回收清洗，瓶到化纤，瓶到瓶交钥匙工程。宝绿特起家于PET瓶清洗厂，再进入到再生聚酯纤维生产。我们积累了丰富的PET瓶原料专业知识，凭借着对再生聚酯生产原料及其质量要求的了解，透过不断地研发与创新，进而投入到PET瓶回收系统生产制造及上下游聚酯回收工程项目。目前已实现「单线产能6吨/小时的清洗线，全球单个车间处理量最大的清洗系统、瓶到瓶级交钥匙工程清洗系统、为国家首批“城市矿产示范基地工业园”提供PET瓶回收清洗设备。长期累积的工程技术能力，能快速有效地帮助客户进入资源再生行业，最大程度地帮助客户减少行业摸索的错误成本。污水处理工程、管道工程、自动化控制等成套专业工程规划，有效地且完整地解决客户需求，提升客户产品的竞争力。

多年来，宝绿特已获得ISO9000，ISO14000与欧洲CE认证，与国际知名自动化设备厂商长期合作与技术交流，成为国际PET瓶回收系统制造与聚酯产业链系统整合的领导厂商，我们将持续深耕于绿色环保技术的开发，引领世界走向更美好的未来。

BoReTech is a resource environmental enterprise which integrates manufacturing, engineering and equipment supply. We specialize in the recycling of PET bottle, bottle to fiber and bottle to bottle engineering project. Started as a PET bottle recycling factory in Taiwan in 1991, BoReTech enters into the production of regenerated polyester fibers in 1994. After years of work, BoReTech has accumulated a wealth of expertise in PET bottle materials; by virtue of the understanding on the production raw materials and quality requirements of the regenerated polyester, through continuous research and innovation, we had launched into the new business of manufacturing of PET bottle washing line. Up to now, we has achieved "the PET bottle washing line with the single line capacity of 6 tons /hour , the world's largest capacity of a single line and B-to-B grade turnkey project", and to provide it to the first batch of national "Urban mineral demonstration base Industrial park". Sewage treatment engineering, pipeline engineering, automatic control and other complete sets of professional engineering planning, those of which total solution service, effectively and completely solve the customer demand and improve the customer's product competitiveness.

Over the years, BoReTech has passed ISO9000, ISO14000 and CE certification, to carry out long-term technical and cooperation with the International well-known manufacturers of automation equipment and to become an International leading manufacturer in the manufacturing of PET bottle recycling system. We will continue to the development of green technologies and leads the world toward a better future.

宝绿特里程碑 \ Milestone of BoReTech



- 1991年 在台湾成立洗瓶厂，专业生产回收聚酯瓶片
- 1994年 在杭州市成立安顺化纤，专业生产再生聚酯短纤维
- 2000年 在嘉兴市成立广顺化纤，专业生产回收聚酯瓶片
- 2004年 在嘉兴市成立浙江宝绿特环保技术有限公司，专业研发及制造聚酯瓶回收清洗系统设备流水线及承接再生化纤，再生造粒，增粘，再生薄膜等工程
- 2013年 在美国成立BoReTech Resource Recovery Engineering LLC., 专业生产回收聚酯瓶片
- 2015年 宝绿特正式更名为“浙江宝绿特环保技术工程有限公司”
- 2017年 在台湾成立宝绿特资源再生科技有限公司，生产再生PET环保切片
- 1991 The PET bottle washing factory in Taiwan, which specialized in recycling PET bottles, was established.
- 1994 Anshun (Hangzhou) Pettechs Fiber CO., LTD., which manufactured regenerated polyester chopped fiber, was established.
- 2000 Guangshun (Jiaxing) Pettechs Fiber CO., LTD., which manufactured and reclaimed polyester bottle flake, was established.
- 2004 Zhejiang BoReTech CO., LTD. In Jiaxing, which developed and manufactured PET recycling and washing system as well as took up the engineering such as recycled fiber, recycled granulation, recycled sheet and so on, was established.
- 2013 BoReTech Resource Recovery Engineering LLC in USA, which recycled post-consumer PET Bottles, was established.
- 2015 BoReTech was renamed to "Zhejiang BoReTech Environmental Engineering CO., LTD."
- 2017 BoReTech Resource Recovery Technology CO., LTD., which manufactured environmental RPET chips, was established.

化纤级PET瓶回收清洗生产线 \ Fiber Grade PET Bottle Recycling Line

(1) 瓶片质量标准参照表 / PET Flakes Quality Standard Reference Table

水分 / Moisture	≤ 1.5%	PP/PE	≤ 20 ppm
标签 / Label	≤ 30 ppm	金属 / Metal	≤ 10 ppm
PVC	≤ 100 ppm	总杂质 / Total Impurity	≤ 200 ppm
黏胶 / Glue	≤ 30 PPM	瓶片尺寸 / Flakes Size	14mm 或者根据客人要求 14mm or according to customer needs

(2) 占地、水电气及人员需求量 / Estimated Plant Parameters

投产量 Capacity (kg/h)	占地面积 Required Area (m²)	设备总功率 Power Installed (kW)	供水要求 Required Water (m³/h)	供蒸汽要求 Required Steam (kg/h)	压缩空气 Required Compressed Air (m³/min)	人力配置 Manpower
500	500	170	0.75	200	0.5	8
1500	700	400	2.25	700	0.5	12
3000	900	600	4.5	1300	0.7	18
6000	1200	900	9	2300	1	30
9000	2300	1400	14	3200	1.5	40

(3) 生产能源单耗参考表 / Production Consumption Table

平均每吨瓶片能耗 / Average Energy Consumption per ton Flakes

投产量 Capacity (kg/h)	用电量 Electricity Consumption (KWH)	蒸汽量 Steam (kg)	药剂用量 Washing Detergent (kg)	用水量 Water Consumption (ton)
500	140	450	6	1.5
1500	130	500	8	1.5
3000	120	450	8	1.5
6000	100	400	8	1.5
9000	95	350	8	1.5

- 以上各参数以标准配置为基础计算；瓶片种类、质量以及工厂管理水平都会影响最终实际耗量
- The above parameters are calculated based on the standard configuration; bottle types, quality and factory management level will affect the final actual consumption
- 用水量参数以使用污水回用系统为基础计算
- Water consumption parameters are calculated based on using wastewater reuse system

宝绿特产品特色 \ Product Features

- 6 t/h以上投入量的大型聚酯瓶清洗线，可实现高度自动化和智能化；
- 整线可配套智能自动化系统，节省人力，实时掌握产线运行状况；
- 整线可配套在线污水处理系统，大大节省用水量，符合环保需求；
- 6 t/h or even higher input capacity of PET bottle recycling system with full automation and intelligent interlock;
- Integrated Automation Solution (IAS) System;
- In-line waste-water treatment reduce water consumption;



瓶到瓶级PET瓶回收清洗生产线 \ “B to B” Grade PET Bottle Washing Line

(1) 瓶片质量标准参照表 / PET Flakes Quality Standard Reference Table

水分 / Moisture	<0.7 %	PP/PE	<15 ppm
标签 / Label	<15 ppm	金属 / Metal	<10 ppm
PVC	<10 ppm	黏胶 / Glue	<10 ppm
PH	7.5±0.5	无机物 / Inorganic Compounds	<10 ppm
总杂质 / Total Impurity	<100 ppm	瓶片尺寸 / Flakes Size	12mm 或者根据客人要求 12mm or according to customer needs

(2) 占地、水电气及人员需求量 / Estimated Plant Parameters

投产量 Capacity (tq/h)	占地面积 Required Area (m²)	设备总功率 Power Installed (kW)	供水要求 Required Water (m³/h)	供蒸汽要求 Required Steam (kg/h)	压缩空气 Required Compressed Air (m³/min)	人力配置 Manpower
1500	800	600	2.25	700	3.5	5
3000	1200	900	4.5	1300	6.5	7
6000	2000	1000	9	2300	12	11
9000	3000	1600	14	3200	20	16

(3) 生产能源单耗参考表 / Production Consumption Table

平均每吨瓶片能耗 / Average Energy Consumption per ton Flakes

投产量 Capacity (tq/h)	用电量 Electricity Consumption (KWH)	蒸汽量 Steam (kg)	药剂量 Washing Detergent (kg)	用水量 Water Consumption (ton)
1500	170	550	12	1.5
3000	160	500	12	1.5
6000	150	450	12	1.5
9000	145	400	10	1.5

- 以上各参数以标准配置为基础计算；瓶砖种类,质量以及工厂管理水平都会影响最终实际耗量
- The above parameters are calculated based on the standard configuration; bottle bales types, quality and factory management level will affect the final actual consumption
- 用水量参数以使用污水回用系统为基础计算
- Water consumption parameters are calculated based on using wastewater reuse system

宝绿特的产品与服务 \ Product and Service of BoReTech

- 0.5-10 t/h 瓶级、化纤级PET 瓶回收清洗线;
- 0.5-3 t/h HDPE/LDPE 回收清洗线;
- 15-100 t/d 瓶到化纤成套装置及交钥匙工程服务;
- 0.3-2.5 t/h 瓶到瓶项目成套装置及交钥匙工程服务;
- 0.3-2 t/h 再生造粒线;
- 0.5-10 t/h PET Bottle Washing Line;
- 0.5-3 t/h HDPE/LDPE Recycling Line;
- 15-100 t/d One-Stop Bottle-to-Fiber Polyester Staple Fiber Production Line;
- 0.3-2.5 t/h Bottle to Bottle Plant Engineering Design and Fabrication;
- 0.3-2 t/h RPET Pelletizing Line;





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浙江宝绿特环保技术工程有限公司 ZHEJIANG BORETECH ENVIRONMENTAL ENGINEERING CO., LTD.

公司地址: 浙江省平湖市曹桥街道九里亭大道 888 号
Address: No.888, Jiuling Avenue, Caoqiao Street, Pinghu, Zhejiang, China
联系方式 (Tel): +86-573-85120186 85136190
公司传真 (Fax): +86-573-85113959
邮政编码 (CP): 314214
电子邮箱 (Email): sales@bo-re-tech.com

www.bo-re-tech.com



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