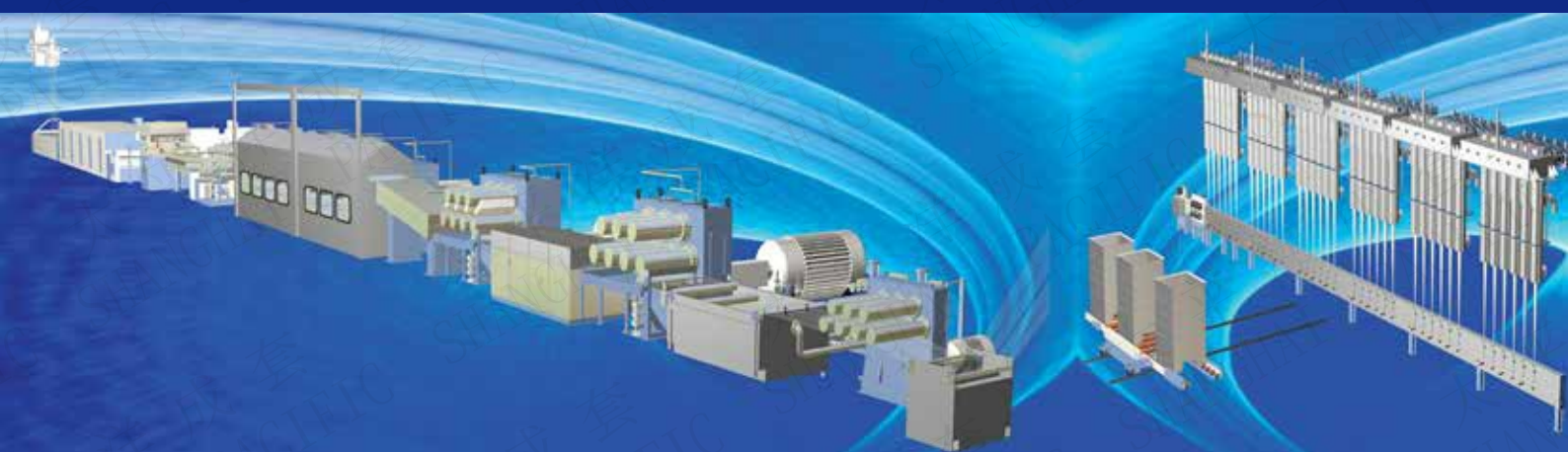




太平洋成套
PACIFIC COMPLETE



再生料涤纶短纤维成套设备

Recycled Flakes Spinning Regenerated PSF complete Equipment



上海太平洋二纺机化纤成套设备有限公司
SHANGHAI PACIFIC ERFANGJI SYNTHETIC FIBRE COMPLETE EQUIPMENT CO.,LTD.

回收聚酯废料（瓶片、泡泡料、膜片等） / 聚酯切片涤纶短纤维柔性化成套设备工程

Recycled pet material(flakes, bubble and film etc.)/Poly-chip Engineering with Flexible Complete Equipment



在人类进入21世纪后，随着世界经济的高速增长，人和自然的矛盾越来越突出，走循环经济和可持续发展道路是人类生存的必由之路。由于地球的石油储备量是有限和不可再生的，而化纤工业又是以石油的裂解产品作为主要原料，因此，在世界范围内采用回收瓶料等用于再生涤纶长、短丝的技术越来越得到各国的青睐，其总产量已占世界涤纶长短丝总产量的25%以上。不仅大大降低了对化纤工业对原油的消耗，而且还降低了可观的CO2大气排放量和制造过程中的能耗。

我公司从1998年就涉足于回收瓶片再生涤纶短纤维成套设备的制造与开发，迄今为止已开发了系列化的回收瓶片/切片兼容的可以分别生产高强低伸/普棉/三维中空的专用成套设备或集三种工艺于一体的柔性化成套设备工程。

我公司将聚酯纤维大容量成套设备的先进控制和制造技术移植到回料纺的设备开发中，使得回收料再生产品的性能接近于用新鲜的聚酯熔体/切片生产所得到的产品，因此得到了市场的追捧。

目前，我公司的涤纶短纤维成套设备远销至东南亚、俄罗斯、西亚等地区。

After humankind entering into 21 century along with high speed growth of economy worldwide there appears more and more contradictions between mankind and nature, which lead to a destined way in economy growth of recycling economy and sustainable development for mankind existing. As the global reserves of crude oil is limited and never regenerated while chemical fiber industry bases on the cracked products of the crude oil as raw materials, therefore the production technology of regenerated PET filament and staple fiber is much accounted of in chemical fiber industry by every country all over the world. Now its total output worldwide takes up to 25% of whole output of PET staple and filament fiber which consequently reduces not only crude oil consumption greatly but carbon dioxide discharge and energy consumption also in production.

Since 1998 involved in developing and manufacturing complete equipment for regenerated PET staple fiber from recycled flakes, our company have developed a series of specific complete equipment by now for high tenacity low elongation/solid cotton/3-D crimped hollow fiber from recycled flakes/chips and the flexible complete equipment of compatibility with the three process types and their engineerings.

We transplant the advanced control and manufacture technology from mass capacity PET staple fiber to recycled material spinning which make the regenerated products much closer to virgin one in function, therefore our production lines are sought after in the market.

Currently we have sold our complete equipment to south-east Asia, west Asia and Russia,

- 工艺设计 Processing design
- 设备安装、制造、投料试车 Installation, Start up
- 质量考核 Performance test



日产70吨瓶片纺丝机
70TPD flake spinning line



纺丝设备
Spinning equipment



日产25吨普棉型瓶片纺涤纶设备
25TPD flakes spinning equipment for solid cotton fiber



日产70吨高强低伸型瓶片纺涤纶后处理设备
70TPD flakes spinning draw-off equipment for high tenacity low elongation fiber

再生料涤纶短纤维纺丝联合机

Combined Spinning Machine for
Regenerated PET From Recycled Flakes



螺杆与双过滤增压
extruder and bi-filtering pressure boost



卷绕墙和牵伸喂入机
draw off wall and capstan and sunflower
feeder



计量泵传动
metering pump drive



半敞开式外环吹
semi-open quenching from outside



丝桶往复装置
can traverse device

纺丝联合机组单元 Main units of spinning line

- | | |
|----------|-----------------------|
| ■ 纺丝机 | ■ Spinning machine |
| ■ 卷绕机 | ■ Take-up machine |
| ■ 丝桶往复装置 | ■ Can traverse device |

纺丝关键技术 Spinning key technology



半敞开式环吹风，低阻尼外环吹，汽缸升降，有特殊结构可产生不对称冷却吹风的装置
Semi-open quench, low damping quench from outside
Cylinder up and down with special structure device producing unsymmetrical cooling blow



单纺位风量控制
blowing control for single spinning position



采用油轮双面上油，有网络生头器的卷绕墙
Two side finishing with oil wheeler, draw-off wall with net take-up



采用油轮双面上油，无网络生头器的卷绕墙
Two side finishing with oil wheeler, draw-off wall without net take-up



6辊牵引和喂入机
6 rollers drawing and feeder



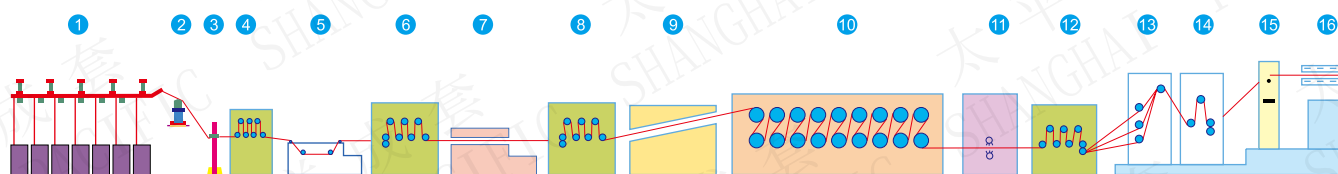
3+5牵引和喂入机
3+5 drawing and feeder

后处理牵伸联合机

Combined Drawing Line



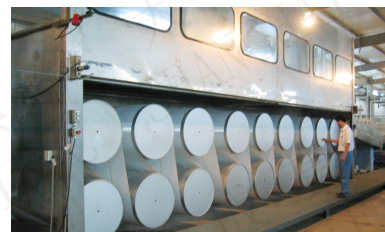
可在一条生产线上生产出三种不同特性纤维的三合一柔性生产线：
One flexible production line can produce three intrinsic character fibers of different looking



牵伸联合机关键技术 Key Technology of Combined Drawing Line



涌渍式牵伸水浴槽
可以将丝束的牵伸点精确地控制在水浴槽中
Immersion draw bath
the draw point of the tow will be controlled precisely in the immersion bath



紧张热定型机
适用于牵伸总旦数 $150 \sim 300 \times 10^4$ dtex 的小型紧张热定型机
small type annealer
suitable for $150 \sim 300 \times 10^4$ dtex tow drawing

牵伸联合机主要组成单元 Main Units Of Drawing Line

- | | |
|----------|-------------------------------------|
| ① 集束架 | ① Can-type creel |
| ② 上导丝架 | ② Top guide creel |
| ③ 下导丝架 | ③ Bottom guide creel |
| ④ 导丝机 | ④ Tow guide stand |
| ⑤ 浸油槽 | ⑤ Immersion bath |
| ⑥ 第一牵伸机 | ⑥ Draw stand 1 |
| ⑦ 水浴牵伸槽 | ⑦ Draw chest |
| ⑧ 第二牵伸机 | ⑧ Draw stand 2 |
| ⑨ 蒸汽加热箱 | ⑨ Steam chest |
| ⑩ 紧张热定型机 | ⑩ Tension heat-setting machine |
| ⑪ 喷淋冷却装置 | ⑪ Spray-type cooler |
| ⑫ 第三牵伸机 | ⑫ Draw stand 3 |
| ⑬ 叠丝机 | ⑬ Tow stacker |
| ⑭ 三辊牵引机 | ⑭ 3 rollers |
| ⑮ 张力架 | ⑮ Tension frame |
| ⑯ 卷曲预热箱 | ⑯ Steam pre-heater |
| ⑰ 卷曲机 | ⑰ Crimper |
| ⑱ 铺丝机 | ⑱ Tow spreading machine |
| ⑲ 上油机 | ⑲ Finish applying device (optional) |
| ⑳ 烘干机 | ⑳ Drying device |
| ㉑ 捕结器 | ㉑ Knot detector |
| ㉒ 曳引张力机 | ㉒ Tow tension stand |
| ㉓ 切断机 | ㉓ Cutter |
| ㉔ 打包机 | ㉔ Baler |



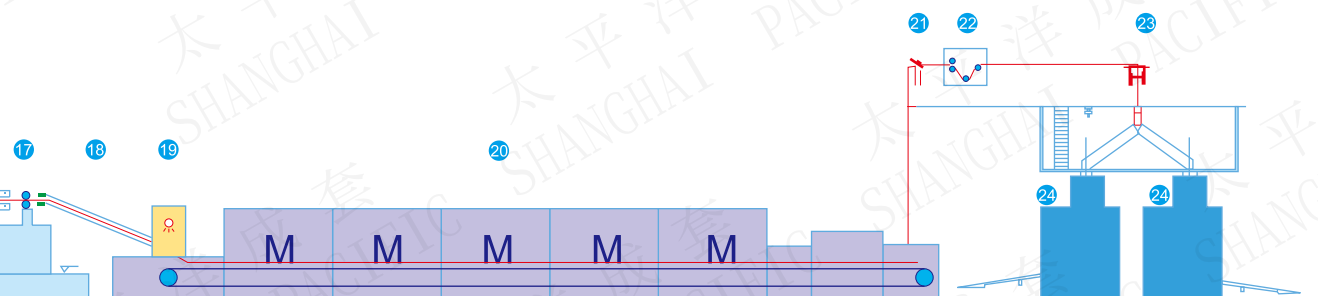
三辊叠丝机
简单、便于操作的叠丝机
3 roller tow stacker
Simple and easy to operate



卷曲张力架
采用先进的在线调节丝片张力的卷曲张力架
crimp tension stand
adopting advanced online regulating for tow tension



松弛定型机
高效节能型松弛定型机，温度可以达到 $160 \sim 180^\circ\text{C}$
Relaxation setter
high efficiency and energy saving type, its temperature can reach up to $160 \sim 180^\circ\text{C}$



牵伸联合机实物展示

Drawing Equipment Display

关键技术 Key technology

■ 紧张热定型机 Annealer

四区18-22辊热定型机，齿轮、轴承润滑采用无油管、内壁油淋式循环强制润滑。法兰连接夹套式定型辊结构，定型轴与传动齿轮采用过盈配合连接。带有自动停车控制的润滑检测系统。

4 groups of totally 18-22 rollers. Circulating oil bath for gears and bearings at top inner wall. Jacket type roller connected with flange. Shaft and gears are connected by tight fits. Lubrication inspection system with auto-stop control.

■ 卷曲机 Crimper

采用高密度卷曲技术，整体式卷曲辊结构，旋转式铜侧板，单独电机变频传动。

High-density crimping technology, with integral crimp roller, revolving copper side panel and individual inverter dragging.



普棉瓶片纺涤纶短纤维生产线(工厂现场)
Flakes spinning PET production line for solid cotton fiber (Plant site)

■ 切断机 Cutter

采用高旦数切断技术，整体式机架，压切式结构，大直径刀盘，在线式换刀盘机构，自动启闭密封罩机构，防倒拖功能。

High denier cutting technology, with integrated frame, press cutting structure, big diameter blade disc, online switching blade disc, automatic open and close of sealing cover and the function of preventing inverse dragging.



双组份LPET/PET复合涤纶短纤维生产线
Bi-components LPET/PET composite PSF production line

■ FCS电气控制系统 Electric control system

基于现场总线的FCS控制系统。开放式的总线，可以容纳第三方设备。大功率、高精度的直流母线变频传动系统，确保设备各单元机升降速的同步。全数字化、全现场化控制，实现了设备集中监控。

FCS electric control system. FCS with open and can be connect with third party equipment. Big capacity and high accuracy DC bus inverter driving system guarantees synchronous lifting of each unit machine. Completely digitalized site control realizes intergrated monitor and control.



三维中空/普棉瓶片纺涤纶短纤维生产线(俄罗斯工厂现场)
Flakes spinning PSF production line for 3 dimensional crimped hollow/solid cotton fiber Plant site in Russia

产品品种和技术数据

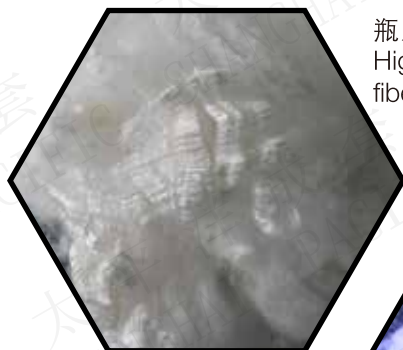
Product and specifications

产品品种 Type of product fibre

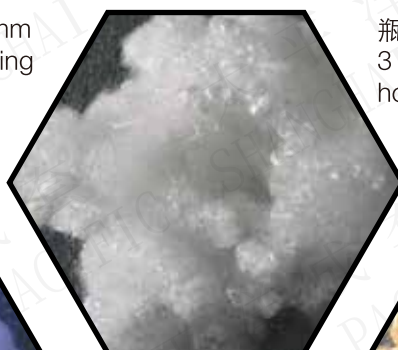
- ▶ 棉型涤纶短纤维
Cotton type polyester staple fibre
高强低伸涤纶短纤维 0.89dtex-2.22 dtex
Hi-tenacity less elongation polyester staple fibre
普棉型涤纶纤维 1.56dtex-3.33 dtex
Normal cotton type polyester staple fibre
毛型涤纶短纤维 3.33dtex-16.67dtex
Wool type polyester staple fibre
- ▶ 中空三维卷曲涤纶短纤维
3D crimped hollow polyester staple fibre
中空三维卷曲涤纶短纤维(有硅)
3.33dtex-16.67dtex
3D crimped hollow polyester staple fibre with silicon
中空三维卷曲涤纶短纤维(无硅)
3.33dtex-16.67dtex
3D crimped hollow polyester staple fibre silicon free
- ▶ 有色、异形、超长、超短、超细等短纤维产品
Color, abnormity, over-length, over-short, super-fine fibre

高强低伸/三维中空/特白棉型涤纶短纤维（纤维照片）

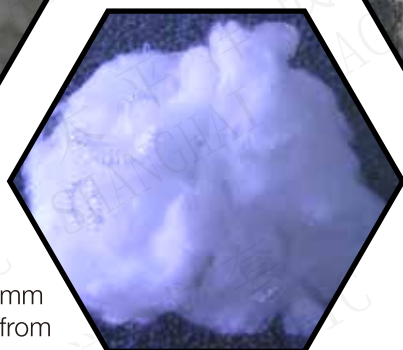
High tenacity low drawing/3 dimensional crimped hollow/ super-white cotton fiber



瓶片高强低伸 1.56x38mm
High tenacity low drawing
fiber from flakes



瓶片三维中空 7.78x64mm
3 dimensional crimped
hollow fiber from flakes



瓶片特白 1.56X38mm
Super-white fiber from
flakes



瓶片棕色 3.33x51mm
Brown color fiber from
flakes

技术数据 Technical data

项目 Item		单位 Unit	数据 specifications		
纺丝 联合机 Spinning line	适纺线密度 Spun linear density	tex	普棉/毛型 Cotton/wool 3.33-16.67	高强低伸 High tenacity 0.89-1.56	三维中空 3D crimped hollow 7.78-22.22
	成品丝日产量 Daily output of fiber	t	18-70	40-100	18-75
	纺丝位数 No. of spinning positions	位 position	8-24	16-36	8-36
	纺丝箱数 No. of spinning beams	pcs	1-4	2-6	1-6
	纺丝位距 Spinning positions gauge	Mm	650	650	650
	喷丝板直径 Diameter of spinneret	Mm	328	328	328
	喷丝板孔数 No. of holes on spinneret	孔 hole	根据品种 Based on product type		
	纺丝速度 Spinning speed	m/min	500-1300	500-1300	500-1300
	纺丝泵规格 Specification of spinning pump	MI/r	70	70	120
牵伸 联合机 Drawing line	总牵伸旦数 Total drawing denier	10 ⁴ dtex	120-280	160-366	120-360
	机械速度 Design speed	m/min	200-250	280-300	200-240
	工艺速度 Processing speed	m/min	150-200	200-250	150-200
	卷曲轮宽度 Crimping roller width	Mm	160-300	220-400	160-400
	装机容量 Rated power	Kw	380-950	500-2300	380-2100
	传动方式 Driving type		多单元传动 Multi-units driving		
	包重 Bale weight	Kg/bale	200-300	250-350	180-220

热忱为您提供：

精湛的技术 卓越的服务 超值的回报

We cordially offer you:

exquisite technology excellent service extraordinary rewards



上海太平洋二纺机化纤成套设备有限公司
SHANGHAI PACIFIC ERFANGJI SYNTHETIC FIBRE COMPLETE EQUIPMENT CO.,LTD

地址：中国上海市静安区
恒丰路600号9楼A区

电话：021-65318888

传真：021-65316186

邮编：200070

网址：www.tpyct.com

Add: 9A, No.600, Hengfeng Road,
Shanghai, P.R.China

Tel: 021-65318888

Fax: 021-65316186

Post: 200070

<http://www.tpyct.com>



随着技术的不断进步，本公司拥有对
机器随时改进的权利
With the technology development,
our company reserves the right to
alter the technical data or modify the
machine without notice