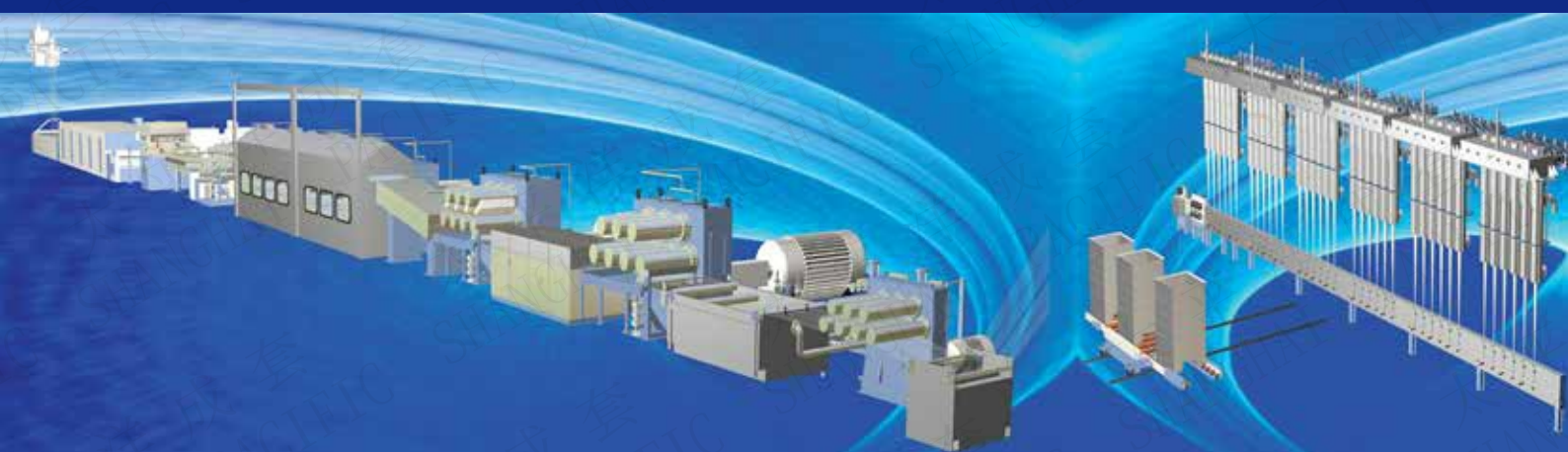




复合纺短纤维成套设备

COMPLETE SET OF EQUIPMENT FOR COMPOSITE SPUN SHORT FIBERS



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.



本公司专业从事以化纤设备为主的纺织机电工程项目,是中国纺织机械行业化纤短纤维成套设备产品研发中心,拥有多项国家发明专利。公司集产品开发设计、工程设计、工艺设计、制造加工、工程施工、安装调试开车为一体,实行工程总承包,实现成套设备交钥匙工程。同时,还提供各类纺织机械和配件的生产、销售。公司将不断开拓创新,为振兴上海纺机工业,服务国内外新老客户做出新的贡献。

Our company specialize in project of textile electrical and mechanical engineering mainly for chemical fiber equipment.

We are chemical staple fiber complete equipment R & D Center in China textile mechanical industry with multiple national invention patent. We handle key project from product exploration, engineering design, project design, process, manufacture, check on and install service to pro-operating with EPC contract for turnkey project . Meanwhile, we also supply all sorts of textile machinery and fittings. We will keep on innovating to make contribution to the revitalization of textile machinery industry in Shanghai and for serving new and old customers at home and abroad.

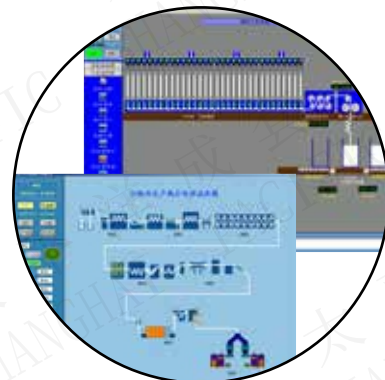
- ▶ 工艺设计 Processing design
- ▶ 设备安装、制造、投料试车 Installation, Start up
- ▶ 质量考核 Performance test



复合纺丝联合机
 Composite Fiber Spin Line



复合纺后处理联合机
 Composite Fiber Draw Line



复合纺短纤维成套设备

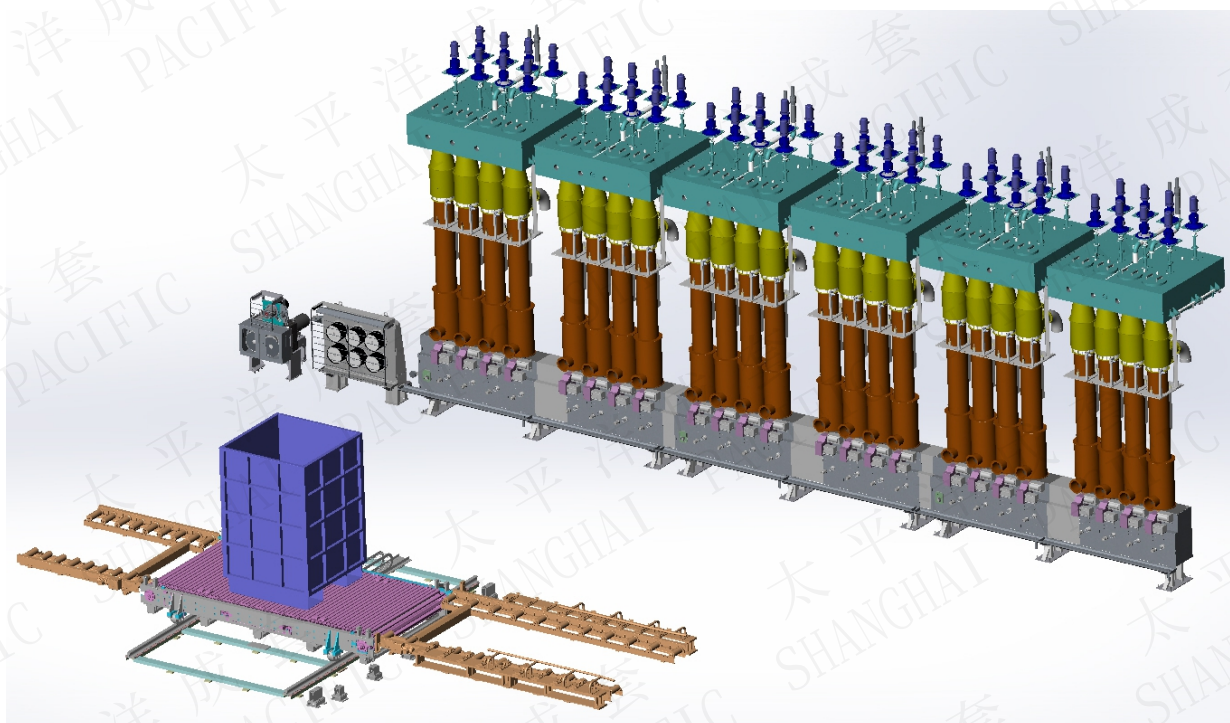
Complete set of equipment for composite spun short fibers

复合短纤维，又称为双组份纤维，是差别化改性纤维的一种，是将两种或两种以上的成纤聚合物熔体，利用组份、配比、粘度等的差异，分别输入同一个纺丝组件，并在组件中的适当部位汇合，在同一纺丝孔中喷出而形成的纤维。复合短纤维有皮芯型、并列型、海岛型等。

我们公司长期致力于为国内外用户提供化纤设备成套工程解决方案。依托于领先的熔纺工艺技术和短纤维成套装备制造技术，使得生产出的复合短纤维产品性能出类拔萃，得到国内外客户认可。

Composite short fibers, also known as bicomponent fibers, are a type of differentiated modified fiber. They are produced by feeding two or more types of fiber-forming polymer melts into the same spinning assembly, leveraging differences in composition, ratio, and viscosity. These melts converge at an appropriate point within the assembly and are extruded through the same spinneret to form the fiber. Composite short fibers can be categorized into sheath-core, side-by-side, and islands-in-the-sea types, among others.

Our company has long been committed to providing complete engineering solutions for chemical fiber equipment to domestic and international customers. Leveraging advanced melt-spinning technology and comprehensive short fiber equipment manufacturing expertise, we produce composite short fiber products with outstanding performance, earning recognition from clients worldwide.



复合短纤维纺丝联合机 Spinning line for composite short fibers

- 纺丝联合机组成单元
- 螺杆与过滤器
- 纺丝机
- 卷绕机
- 丝桶往复装置

- Main units of spinning line
- Extruder and filter
- Spinning machine
- Take-up machine
- Can traverse device

关键设备 Key machine

■ 复合纺丝箱 Composite Spinning Beam

采用特殊设计的三箱式结构,并配有独立的加热保温系统,使得两种不同组分的熔体输送以及复合纺丝组件的加热保温相对独立,工艺调整手段多样。

The system features a specially designed three-chamber structure, with an independent heating and insulation system. This ensures relatively independent melt transportation for two different polymer components, as well as separate thermal control for the composite spinning assembly. The design provides diverse process adjustment capabilities, enhancing flexibility in production.



■ 环吹风装置 Annular Quenching system

采用全封闭式外环吹冷却形式,带自动风量控制系统。原丝上油采用环形内唇溢流式上油盘,整流器拆装方便,清洗便利。

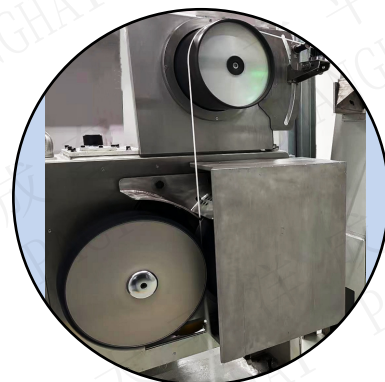
Adopts the form of completely sealed Annular Quenching system with automatic air volume control. The fiber finishes application utilizes an annular inner-lip overflow oiling disk, featuring a quick-disassembly rectifier for easy maintenance and cleaning.



■ 喂入机 Feeding machine

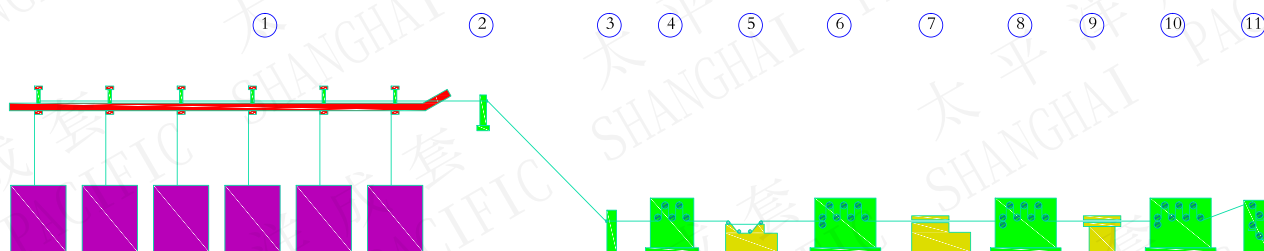
采用导入轮加喂入辊形式,辊体表面喷涂 AL_2O_3 ,喂入轮采用同步电机通过高精度齿轮组传动,机械速度可达2000 m/min。

Adopts the combined form of sunflower and guiding roller. The surface of rollers is coated with AL_2O_3 . The guiding rollers are driven by Synchronous Motor controlled through high precise gear. The mechanical speed can reach up to 2000 m/min.

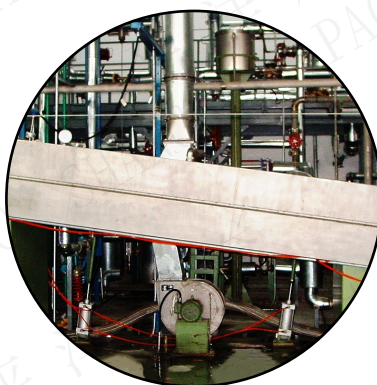
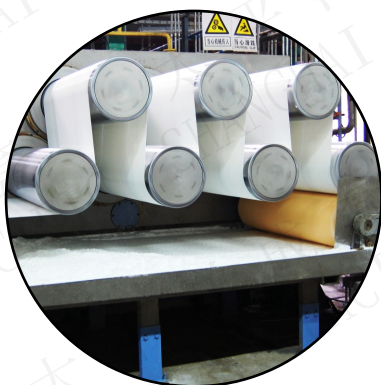
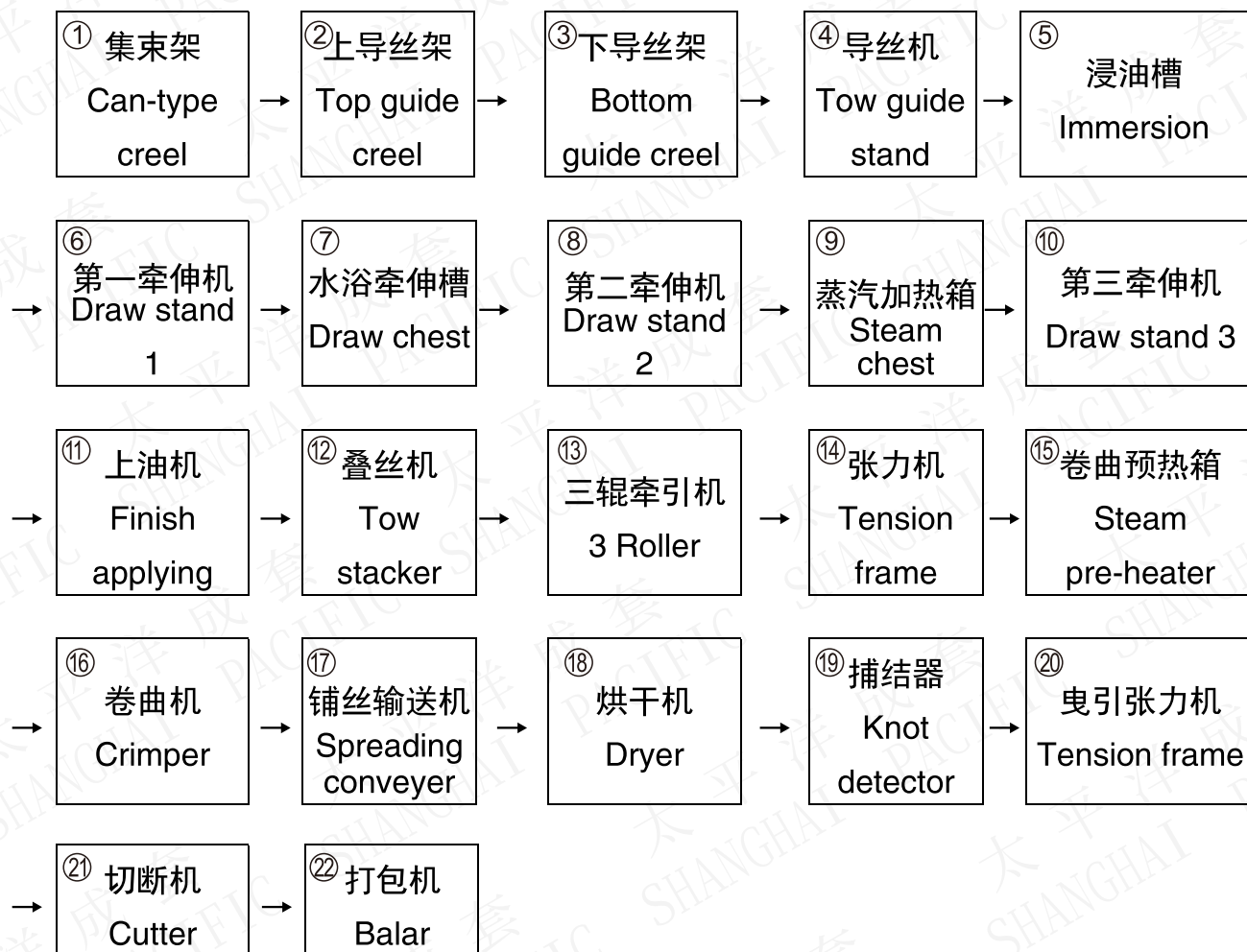


复合短纤维牵伸联合机

Drawing line for composite short fibers



牵伸联合机组成单元 Main Unit Of Drawing Line



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复合纺短纤维成套设备

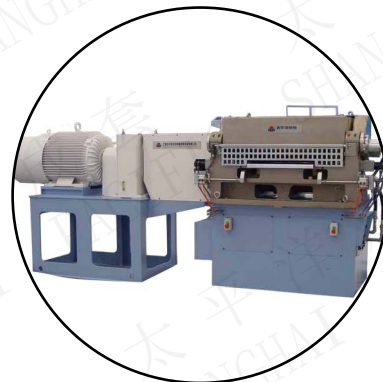
Complete set of equipment for composite spun short fibers

关键设备 Key machine

■ 卷曲机 Crimper

采用上卷曲辊固定,下卷曲辊加压,减少被压的设计结构,机架材质采用球墨铸铁,吸震防变形,单独电机变频传动。

Adopts a fixed top crimping roller and a pressurized bottom crimping roller to minimize fiber compression. The frame is constructed with ductile iron for vibration absorption and deformation resistance, featuring individual motor frequency conversion drive.



■ 切断机 Cutter

采用立式压切结构,单独电机变频传动,高速的切断能力,切断精度高,具有完善的防护装置和便捷的维修通道。

Vertical press-cutting structure, featuring individual motor frequency - conversion drive, high - speed cutting capability, high cutting precision, and has complete protective devices and convenient maintenance passages.



复合纺短纤维成套设备

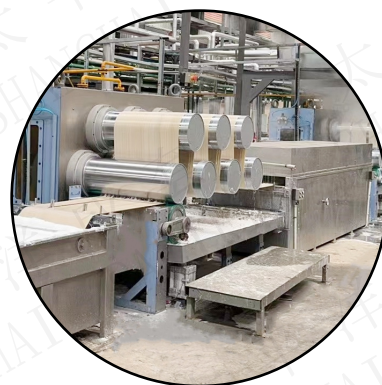
Complete set of equipment for composite spun short fibers

关键设备 Key machine

■ 牵伸机 Draw stand

齿轮、轴承润滑采用无油管、内壁油淋式循环强制润滑。法兰连接夹套式牵伸辊结构，牵伸轴与传动齿轮采用胀套连接。带有自动停车控制的润滑系统检测。

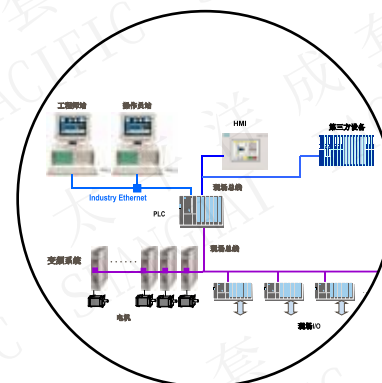
Draw stand: Circulating oil bath for gear and bearings at top inner wall. Jacket type roller connected with flange. Shaft and gears are connected by expansion sleeve. Lubrication inspection system with auto-stop control.



■ FCS电气控制系统 FCS electric control system

开放式总线，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，实现了设备集中控制。

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 integrated monitor and control.

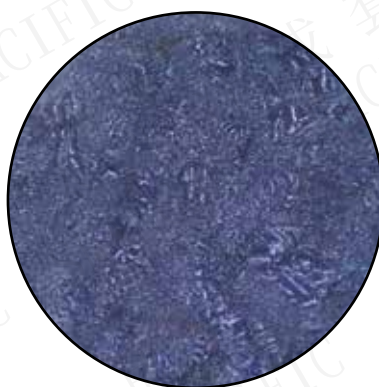


产品品种

Type of product fiber

■ 皮芯型、定岛型、不定岛型、并列中空型等复合纺纤维

Skin-core, Uniform Island Fiber, Non-uniform Island Fiber, Side-by-side hollow



技术数据

Technical data

项目 Item		单位 Unit	数据 Specification			
纺丝联合机	纺丝密度 Spinning density	tex	0.89 6.67			
			2.22(示例) Example	4.44(示例) Example		
	成品丝日产量 Daily output of fiber	吨 t	30	60	100	150
	纺丝位数 No.of spinning positions	位 position	12	24	18	30
	纺丝箱数 No.of spinning beams	pcs	2	4	3	5
	纺丝位距 Spinning positions gauge	mm	650	700	700	700
	喷丝板直径 Diameter of spinneret	mm	328	410	410	410
	喷丝板孔数 No.of hole on spinneret	孔 hole	2380	2600	2600	2600
	纺丝速度 Spinning speed	m/min	500~1200	500~1200	500~1300	500~1300
	计量泵规格 Specification of spinning pump	ml/r	60×2	60×2	70×2	70×2
牵伸联合机	总牵伸旦数 Total drawing denier	10 ⁴ dtex	160	340	500	660
	机械速度 Design speed	m/min	220	220	220	220
	工艺速度 Processing speed	m/min	180	180	180	200
	卷曲轮宽度 Crimping roller width	mm	180	360	520	680
	传动方式 Driving type		多单元传动 Multi-units driving			
	装置容量 Device capacity	kw	450	1000	1500	2100
	包重 Baler weight	kg	250	300	350	350

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