



Brief Introduction of

China High-Tech Group Corporation



- Established in Sep. 1998, China High-Tech Group Corporation is a state-owned enterprise with textile machinery as its core business.
- High-Tech Group currently owns a total asset of 90 billion RMB, with 23 subsidiaries, 14 overseas companies and over 48,000 employees, as well as 6 companies listed either domestic or overseas.

58 Billion

23

14

60000

6

Total Asset

subsidiaries

Overseas Companies

Employees

Listed Companies







Member Enterprise

23 Main subsidiaries

- China Textile Industrial Corporation for Foreign Economic and Technical Cooperation
- · China National Chemical Fiber Corp.
- · China Silk Industrial Corporation
- · China National Garments Group Corporation
- · China Textile Science & Technology Co., Ltd.
- · Hantrong Investment Co., Ltd.
- · Sinatex S.A.DE.C.V
- Hi-Tech Fiber Group Corporation
- China Hi-Tech (Jiangxi) Textile Design Institute Co., Ltd.
- CHTC Industries (Weifang) Co., Ltd
- · CHTC Investment Management Co., Ltd
- · CHTC Engine Co., Ltd.

- CHTC Holdings Co., Ltd.(The Subsidiary Fong's Industries Company Limited)
- · CHTC KAMA Co., Ltd.
- Shenyang Zhongheng New Materials Co., Ltd.
- · CHTC Real Estate Co., Ltd.
- CHTC Heavy Industry Co., Ltd
- · China Garments Co., Ltd.
- Zhengzhou Hi-Tech Non-woven Technology Co.,
 Ltd.(The Subsidiary Autefa Solutions Group)
- Swan Fiber Co., Ltd.
- Shandong Helon Co., Ltd.
- Jingwei Textile Machinery Co., Ltd.
- · Hongda Investment Co., Ltd.





Member Enterprise

6 Listed Companies

- Jingwei Textile Machinery Co., Ltd. (000666)
- CHTC KAMA Co., Ltd. (900953)
- Swan Fiber Co., Ltd. (000687)
- China Garments Co., Ltd. (000902)
- Shandong Helon Co., Ltd. (000677)
- Fong's Industries Company Limited (HK.00641)











CHTC in Textile and Chemical Machinery

- The core business of CHTC
- No.1 in the textile machinery supplier in China
- World's top supplier of turn-key polymerization & fiber lines & Coal/Nature gas chemical industry.
- Main products:

Synthetic fiber complete equipment, Coal/Nature gas chemical industry, Polymerization production line, Cotton textile whole process equipment, Printing and dyeing complete equipment, Non-woven cloth complete equipment.







Major company and strategic partner in Textile and Chemical Machinery



Zhengzhou Textile Machinery Engineering & Technology Co., Ltd.



Jingwei Textile Machinery Co., Ltd.



Autefa Solutions





Fong's Industries Company Limited















Location of the Branches



















The Professional Supplier of Whole Line Project

(EPC Project & Turnkey Project)

Recipe for Winning in the Market





Help customers to start from scratch to a running factory.



All main equipments are made by CHTC

Use the best parts & materials in the industry



The Professional Supplier of Whole Line Project

(EPC Project & Turnkey Project)

- Equipment and Utilities
- Civil engineering
- Financial support







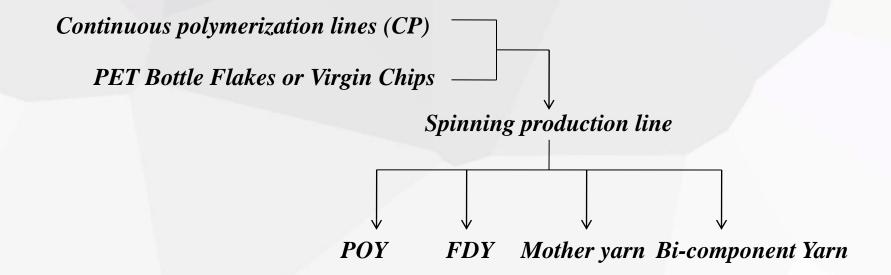




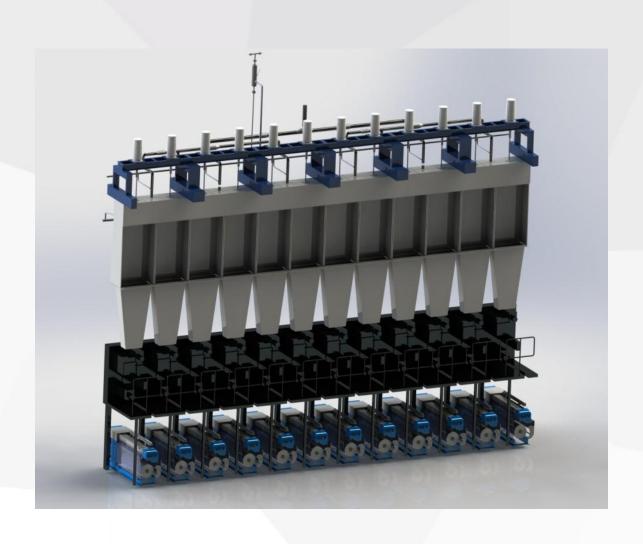
- More than 10 year's developing and manufacturing experience.
- Mainly product: POY line, FDY Line, for Polyester filament, Nylon filament, polypropylene etc.
- Delivered more than 3000 positions in China and overseas market.
- Achieve high quality, widely used, high added value for customer.











Polymer POY Process Flow from CP

Melt polymer from $CP \rightarrow Three$ -way valve $\rightarrow Melt$ transfer pipe $\rightarrow Melt$ filter $\rightarrow Distribution$ pipe $\rightarrow Spin$ beam $\rightarrow Cross$ quenching $\rightarrow Oil$ nozzle $\rightarrow Yarn$ duct $\rightarrow Cutter$ & aspirator $\rightarrow Pre$ -interlace $\rightarrow GR1 \rightarrow Interlace \rightarrow GR2 \rightarrow Auto winder$

Polymer FDY Process flow from CP

Melt polymer from $CP \rightarrow Three$ -way valve $\rightarrow Melt$ transfer pipe $\rightarrow Melt$ filter $\rightarrow Distribution$ pipe $\rightarrow Spin$ beam $\rightarrow Cross$ quenching $\rightarrow Yarn$ duct $\rightarrow Cutter$ & aspirator $\rightarrow Spin$ finish roller $\rightarrow Pre$ -interlace $\rightarrow Dual$ $HGR1 \rightarrow HGR2 + SR \rightarrow Interlace \rightarrow Auto winder$





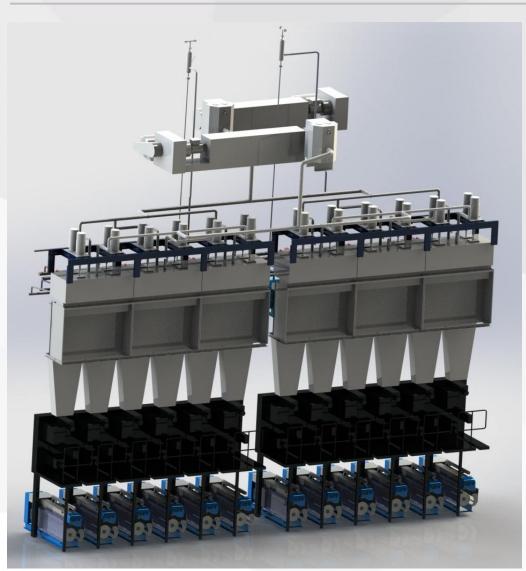
POY Process flow from chips or flakes

Chips or Flakes Dryer \rightarrow Extruder \rightarrow Pre filter \rightarrow (Homogenizer \rightarrow Fine filter \rightarrow Post MB adding system) \rightarrow Spin beam \rightarrow Cross quenching \rightarrow Oil nozzle \rightarrow Yarn duct \rightarrow Cutter & aspirator \rightarrow Pre-interlace \rightarrow GR1 \rightarrow Interlace \rightarrow GR2 \rightarrow Auto winder

FDY Process flow from chips or flakes

Chips or Flakes Dryer \rightarrow Extruder \rightarrow Pre filter \rightarrow Homogenizer \rightarrow Fine filter \rightarrow Post MB adding system \rightarrow Spin beam \rightarrow Cross quenching \rightarrow Yarn duct \rightarrow Cutter & aspirator \rightarrow Spin finish roller \rightarrow Pre-interlace \rightarrow Dual HGR1 \rightarrow HGR2 + SR \rightarrow Interlace \rightarrow Auto winder





Process flow of mother yarn line

Chips conveyor \rightarrow Pre crystallizer & Dyer \rightarrow Extruder \rightarrow CPF \rightarrow Spin beam \rightarrow Cross quenching \rightarrow Cutter & Aspirator \rightarrow Oiling roller \rightarrow Pre interlace \rightarrow Dual HGR1 \rightarrow Dual HGR2 \rightarrow GR3 \rightarrow Auto winder

Process flow of Bi-Component line

Component A drying \rightarrow Extruding \rightarrow Filtering & metering \neg Component B drying \rightarrow Extruding \rightarrow Filtering & metering \neg \rightarrow Spin pack \rightarrow Quenching \rightarrow Oiling \rightarrow Auto winding





• Main purpose to remove the moisture from the raw material and also increase the softening temperature of raw material.



Continuous Dryer



Screw extruder

- For melting and mixing the PET bottle flakes or chips from hopper after being heated and dried.
- Diameter series of screws: Φ60, Φ80, Φ90, Φ150, Φ120, Φ130, Φ135, Φ150, Φ160, Φ170, Φ180.
- One extruder for 2 pos/3pos/4pos for firmament production line according to the different design



Spinning beam and related equipment

- Specially designed distribution piping system to guarantee same dwell time and same pressure for reaching each spinning position.
- High –precision metering pump to provide continuous melt in high pressure and accuracy into spin pack. Driven by synchronous motor and with vertical type or horizontal type.
- Equipped with new type of energy conservation spin beams with (25-30)% less energy consumption compared with conventional ones.
- Holes for the spinneret: 24, 36,48,72,96,108,144, 288.
- DIO for micro fine denier yarn









Quenching area

- Monofilament cooled by air flow with certain temperature, angel and speed from quenching area for ensuring good yarn quality.
- The system provide high-level automation ,uniform cooling result and comfortable working environment.
- With cross quenching ,circular quenching and special-cross quenching device depending on different production requirement.



- TK Series Hot Godet Roller(HGR) and Separate Roller(SR)
 - Suitable for FDY process.
 - Comprised by godet, heater, transistor, sensor and control temerature.etc.
 - With power frequency and thermal pipe temperature uniform or individual section temperature controlling for HGR
 - Driven by permanent magnet synchronization motor.













Technical Specification of HGR

Dia. mm	220	220
Length (can be customized) mm	350	400
Effective heating length mm	280	330
Speed m/min	1000-6000	1000-4000
Temperature °C	0-150	50-200
Temperature difference in working zone: °C	±1.5	±1.5
Heating efficiency KW	11	9
Surface treatment:	Ceramic coated	Chrome plating
Driving motor	4-level permanent magnet synchronous motor	
Lubrication	Oil mist	





High-speed Winder

- As key part of the filament yarn production line, winder from CHTC can be divided into ZWT winders with traverse cam and ZWB winders with bi-rotary for spinning POY and FDY of PET and polyamider as well as other industrial spinning.
- With multi-combination and flexible application to improve the customer's benefits capacity.



ZWT series Cam winder



ZWB series Birotor winder















- The advance of CHTC equipment
- More than 16 year's developing and manufacturing experience.
- Delivered more than 3000 positions in China and overseas market.
- Turn-key project.
- Advanced DCS control system.
- Famous international supplier like Meiden Japan, ABB America, Slack UK.
- Professional erection and commissioning guidance.
- Rapid and excellent after-sale service.



Professional Design and Utilities Data





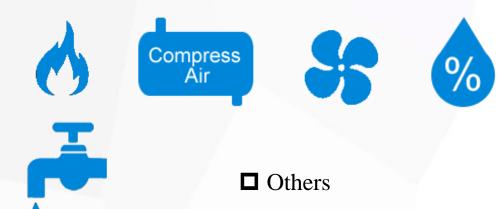
☐ Design the reasonable and customized machine arrangement whatever for customers' existing workshop or new building



☐ Calculate the total installation power after the beginning of design and also recommend customer the suitable transformer capacity



☐ Full set of drawing according to the process step



Famous brand accessory





























Thanks