

精炼联合机 After-Treatment Combination Machine :

输毛管 fiber conveyor pipe
精炼联合机由输毛管、给纤槽、精炼机组成，其作用是对切断后的纤维清洗，去除纤维中所含的酸性杂质，并对纤维进行漂白和上油，使纤维具有一定的白度和良好的可纺性。

精炼联合机由于在高温酸性环境下工作，整机的防腐性能要求很高。郑纺机研发的精炼联合机具有幅宽大、产量高、运行稳定等特点，目前最大工作幅宽可达4500mm，最大年产量达到15万吨，幅宽和产量均为世界第一。整套设备具有低能耗、环保、工艺适应性强、综合性能指标高等特点，可用于普纤、高白、高强等不同纤维品种的生产



The After-Treatment Combination Machine is composed of trunklines, CS2 recovery trough and After-Treatment machine. Its function is to clean the cut-off fiber, remove the acid impurities that were contained in the fiber, bleach and grease the fiber. The fiber will have a certain degree of whiteness and good spinnability.

Due to working under high temperature and acid environment, After-Treatment machine ^{requires} has high corrosion resistance. The After-Treatment Combination Machine, produced by HTHI, has wide working width, high capacity, stable operation etc. The maximum working width can reach 4500 mm and the maximum annual output is 150,000 tons, which ranks No.1 in the world. The equipment has the characteristics of low energy consumption, environmental friendly, strong process adaptability and high comprehensive performance. It can be used for the production of ordinary fiber, high whiteness, high strength and other different fiber varieties. ^{tenacity}

烘干联合机 Drying Combination Machine :



烘干联合机包括湿开棉机、喂给机、烘干机、精开棉机组成，其作用是对精炼后的湿纤维进行烘干，去除多余的水分，达到成品纤维回潮率，并对纤维进一步进行开松，提高纤维的可纺性。

郑纺机在烘干机的烘房设计、密封结构设计、隔热门设计、散热器滤网设计等方面研发了多项专利技术，单线年产能达到15万吨，最大工作幅宽达到4400mm，吨纤维的蒸汽消耗量小于1.3吨。郑纺机严格的质量控制体系，保证烘干机整机性能达到国际先进水平。

The drying combination machine consists of wet opener, feeding machine, drying machine and fine opener. Its function is to dry the wet fiber after treatment, remove excess moisture, reach the moisture regain rate of finished fiber, loosen the fiber further and improve the spinnability of the fiber.

HTHI has developed a number of patented technologies in drying chamber design, sealing structure design, heat insulation design, radiator filter design, etc. The annual capacity of a single line reaches 150,000 tons, the maximum working width reaches 4,400 mm, and the steam consumption per ton of fiber is less than 1.3 tons. The strict quality control system of HTHI ensures that the performance of the dryer can achieve international advanced level.

恒天重工股份有限公司 HI-TECH HEAVY INDUSTRY CO.,LTD.

地址：郑州市高新技术开发区梧桐街258号
邮编：450001
电话：0371-85516588
传真：0371-85516566

ADD: No.258, Wutong Street, Zhengzhou City,
Henan, China
P. C: 450001
Tel: +86 371 8551 6588 TEL
Fax: +86 371 8551 6566 FAX

粘胶纤维设备

VISCOSE FIBER EQUIPMENT





恒天重工股份有限公司粘胶纤维设备研制始于二十世纪五十年代，经过半个多世纪的不断探索实践和发展创新，世界成套设备的供应商，所制造的粘胶纤维生产线累计产能超过450万吨，市场综合占有率达到90%以上。

The development of viscose fiber equipment of Hi-Tech Heavy Industry Co., Ltd (HTHI) began in the 1950s. After more than a half a century of continuous exploration and innovation, it has become the only supplier that can provide complete sets of viscose fiber equipment to customers in the world. The cumulative production capacity of the viscose fiber production line has exceeded 4.5 million tons, and the market share has reached more than 90%.

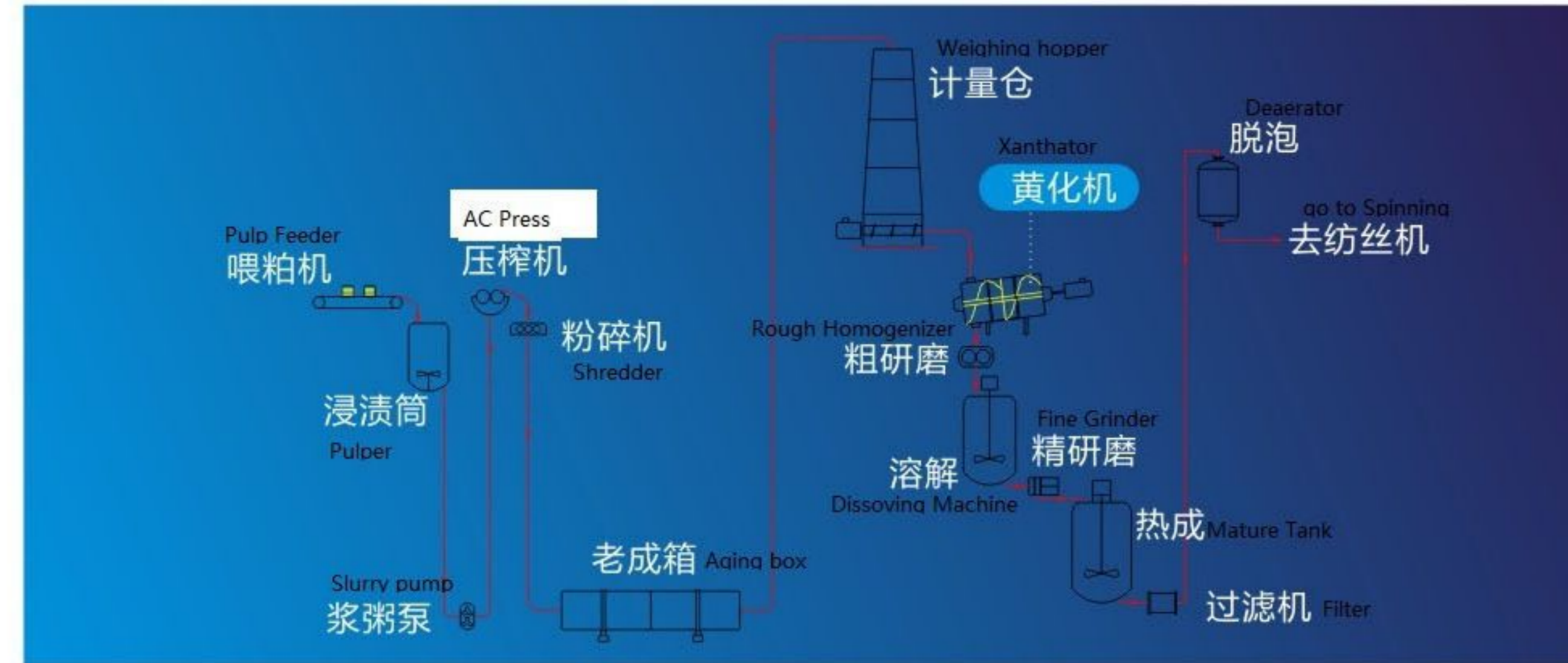
近年来郑纺机先后成功研发年产6万吨、8万吨、10万吨、12万吨、15万吨粘胶短纤生产线。可成套供应年产5000吨至15万吨粘胶短纤设备。

In recent years, HTHI has successfully developed production lines of viscose staple fiber with an annual output of 60,000 tons, 80,000 tons, 100,000 tons, 120,000 tons and 150,000 tons. It can supply a range from 5,000 tons to 150,000 tons annual production of viscose staple fiber equipment.

恒天重工股份有限公司竭诚为国内外客户提供性能优良、质量上乘的各种粘胶纤维设备，同时郑纺机隶属的恒天集团内部拥有国内最专业的工程设计院，具有承接国内外粘胶纤维成套工程的能力和资质，热诚欢迎国内外客户光临惠顾。

HTHI is dedicated to providing domestic and foreign customers with all kinds of viscose fiber equipment with excellent performance and high quality. At the same time, HTHI, which is the headquarter of Hi-Tech Heavy Industry Co., Ltd owns the most professional engineering design institute in China. It has the ability and qualification to provide complete solutions for viscose fiber project. We sincerely welcome customers all around the world to visit us.

原液流程图 Viscose flow chart

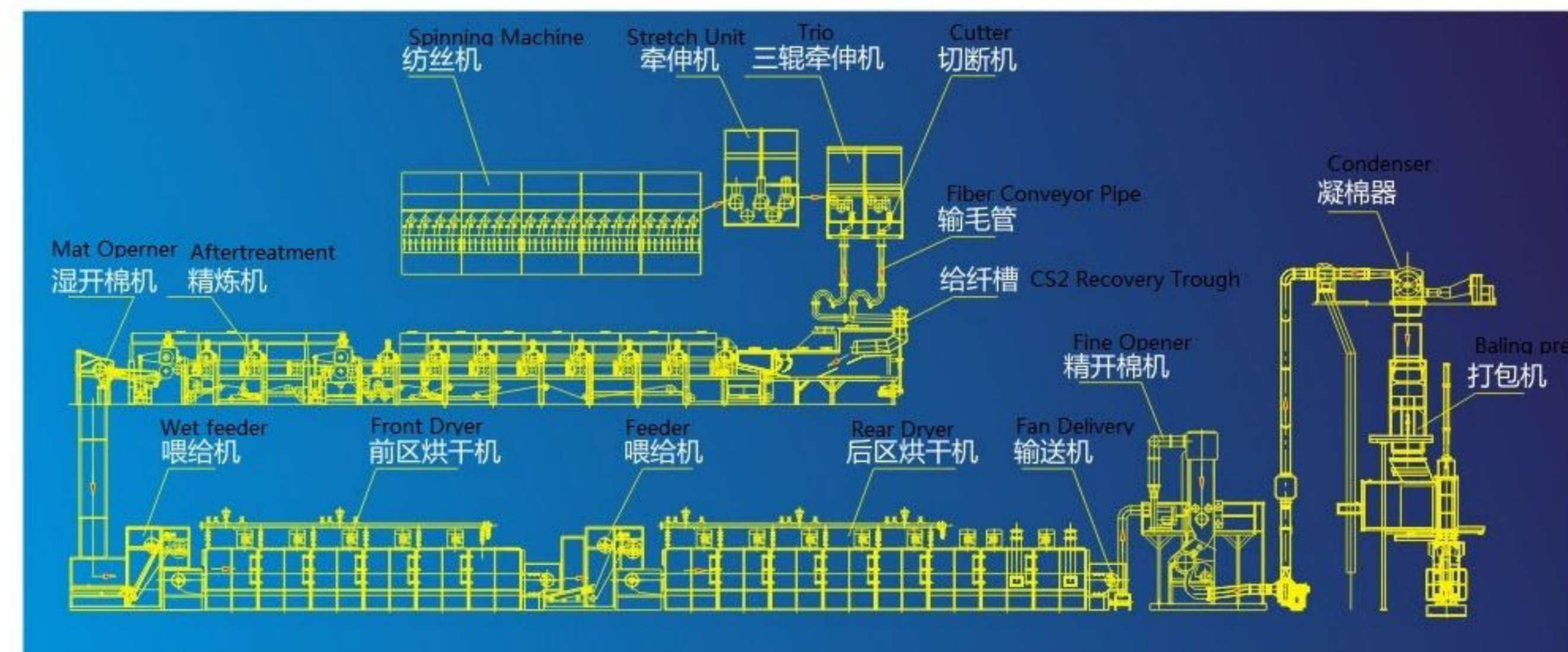


原液产品特点: Viscose equipment characters

黄化机有椭圆截面水平放置和正圆截面倾斜放置形式,双层螺旋带式搅拌器,黄化反应迅速;

Xanthator has two types, one is ellipse section and horizontal put, the other is circular section and inclined put. Double screw agitator can have fast churing speed.

纺炼流程图 Spinning flow chart



纺炼产品特点: Spinning characters

平网输送式精炼机，运行平稳，产量大；连续帘板式烘干机，产量大，能效高。

Sleeve conveyor type Aftertreatment runs stably and has big capacity. Continuous curtain plate type Dryer has big capacity and high energy efficiency.

压榨机 AC Press :

压榨机是粘胶短纤生产中原液关键设备之一，其作用是将浸渍后的碱纤维素浆粥进行压榨，去除多余的水分，达到黄化反应所需的组成。郑纺机所生产的压榨机包括900mm、1800mm、2400mm等几种规格幅宽，对应产能为16 t/d、33 t/d、44 t/d，其中2400mm幅宽是目前全球幅宽最大，产能最高的压榨机。

郑纺机在压榨辊的设计、制造上采用了多项新工艺、新技术。通过这些技术改进，大大提高了压榨机的使用效果。



Introduction: AC press is one of the key equipments for the production of viscose staple fibers. Its function is to press the pulped alkali cellulose to remove excess water and finally achieve the composition for xanthating reaction. The working width of AC press produced by HTHI including 900mm, 1800mm, 2400mm and so on. The corresponding capacity is 16 t/d, 33 t/d, 44 t/d, of which 2400mm working width of the machine is the largest width and the most productive AC press.

HTHI has adopted many new technologies in the design and manufacture of the pressing roller. Through the improvements on these new technologies, working efficiency of the machine is greatly improved.

黄化机 Xanthator :



黄化机是粘胶短纤生产的核心设备，其作用是将碱纤维素与二硫化碳发生反应，生成纤维素黄酸酯，并溶解于碱液中，初步形成粘胶溶液。

郑纺机是粘胶黄化机的专业生产厂家，国内外市场占有率达到90%以上，先后研发了全容积33m³、45m³、50m³的大容量黄化机，引领全球设备大型化的发展。为进一步提高黄化机加工质量，提升黄化机加工效率，郑纺机斥巨资引进了搅拌器焊接机器人，把原来人工焊接一个月的工作量缩短到一周内，同时焊接质量也大幅改善。为保证黄化机筒体和搅拌器间隙的均匀性，公司技术部门专门设计制造了筒体专用镗床和搅拌器专用铣床，使大容量黄化机筒体和搅拌器间隙控制精度有了很大提高，满足了用户对黄化效果越来越高的要求。

Xanthator is the core equipment of viscose staple fiber production. There will be the reaction between alkaline cellulose and carbon disulfide (CS2) to form cellulose xanthate, which is dissolved in alkaline solution and initially forms viscose solution.

HTHI is a professional manufacturer of viscose xanthator. Its market share is over 90% in domestic and international market. It has developed large-capacity xanthators with a total volume of 33, 45, and 50 Cubic meters and led the development of large-scale equipment in the world.

In order to improve the processing quality and efficiency of xanthator, HTHI has invested a lot to bring a stirrer welding robot, which shortens the duration from one month manual welding to one week robot welding and greatly improves the welding quality. In order to ensure the uniformity of the gap between the barrel and the agitator of xanthator, our technical department has specially designed and manufactured a special boring machine for barrel and a special milling machine for agitator machining. The precision of the gap control between barrel and agitator of the large-capacity xanthator has been greatly improved, which meets the higher requirements of the users for xanthating reaction effect.