



XINBOXUAN
鑫博轩

提供生产工业单丝、扁丝、
人造草坪丝和打包带的成
套设备及相应的收卷机。

lines and winding system
for the production of monofilament, tape/
twine, artificial grass and strapping tape

高生产效率, 深思熟虑的自动化和绝对的可靠性
High productivity, well thought-out automation
and absolute reliability:

助您获得显著的竞争优势
Gain a distinct competitive advantage.

常州鑫博轩设备制造有限公司

CHANGZHOU XINBOXUAN MACHINERY MANUFACTURING CO., LTD

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COMPANY PROFILE

公司简介

常州鑫博轩设备制造有限公司位于经济发达的长江三角洲地区中心城市之一，同时也是拥有先进制造业基地和文化旅游名城的常州。公司临近常州机场，京沪高铁，沪蓉高速G42、京杭高速S39、338省道、122省道穿区而过。优越的地理位置、良好的经济氛围、便利的交通条件，为您的合作提供了最佳的环境。

十余年来鑫博轩致力于向全球用户提供高科技技术织物成套生产设备、单机设备及收卷设备。我们不仅提供设备，而且提供全套工程设计和工艺技术及专利。紧贴市场，与客户实现无障碍沟通，专设试验线可为用户提供定制化服务。系统的服务使得鑫博轩迅速成为当前单丝、PET塑钢带、人造草丝生产领域的优秀服务商。

鑫博轩创立以来，以“诚信、品质、服务、创新”作为公司的服务宗旨，符合我们合作伙伴的利益为愿景。

热忱欢迎新老朋友莅临指导、咨询、洽谈业务。我们将竭诚与广大朋友携手并进，共赢明天。

Changzhou XinBoxuan Machinery Manufacturing Co., Ltd is located in Changzhou, one of the central cities in the economically developed Yangtze River Delta region, and also has an advanced manufacturing base and a famous cultural tourism city. The company is close to Changzhou airport. Beijing Shanghai high speed railway, G42 Shanghai Chengdu expressway, S39 Beijing Hangzhou Expressway, 338 provincial highway and 122 provincial highway pass through the area. Superior geographical location, good economic atmosphere and convenient transportation conditions provide the best environment for your cooperation.

For more than ten years, xinboxuan has been committed to providing global users with complete sets of high-tech fabric production equipment, single machine equipment and winding equipment. We not only provide equipment, but also provide a full set of engineering design and process technology and patents. Close to the market, realize barrier free communication with customers, and set up a special test line to provide customized services for users. The systematic service makes xinboxuan quickly become an excellent service provider in the current monofilament, pet plastic steel belt and rayon production field.

Since its establishment, xinboxuan has taken "integrity, quality, service and innovation" as the service tenet of the company, which is in line with the interests of our partners.

Warmly welcome new and old friends to come to guide, consult and negotiate business. We will wholeheartedly go hand in hand with our friends and win-win tomorrow.

鑫博轩XBX

创新的解决方案提供了显著的生产率优势

Innovative solution for the distinct advantage in productivity

我们是经验丰富的单丝和塑钢带生产设备成套设备供应商，凭借高度的灵活性、创新能力和上百条现役生产线所积累的丰富经验，我们开发的技术可助您获得明显的竞争优势。

We are the experienced manufacturer in the production of monofilament and strapping tape lines. With high flexibility, innovativeness and experience from more than 100 commissioned lines, we develop technologies that give you a clear edge over the competition.

公司 / COMPANY 集设计、研发和制造于一体 All in one house

鑫博轩集设计、研发和制造一体于塑料挤出科技，并提供所有核心部件。这样生产线技术与产品转化得以紧密结合，从而实现整个产线的高效率。

XBX integrate design, research & development and manufacturing for plastic extrusion technology in one house, this network supplies us with all core components we use in our lines. This way, line technology and product conversion are closely connected - for a high productivity of the total line.

合作关系 / PARTNERSHIP 长期合作 Long term cooperation

对我们来说，与您分享我们的专利技术是理所当然的。作为生产者，我们将在整个过程中始终与您相伴，从生产线的规划、调试以及从产品开发到生产。这样，即使您是行业新手，我们也能让您成功生产出需要的优质产品。

For us, it is a matter of course to let you share in our knowledge. We accompany you as producer through the entire process, from planning the line to commission it and from product development to production. Thus we enable even newcomers in the industry to successfully start producing monofilaments and strapping tapes.

能力 / COMPETENCE 工程设计与咨询 Engineering and consultation

凭借十多年的机械与工厂设备制造经验，我们深知在产品的生产与转化过程中，哪些因素至关重要。我们在开发系统的过程中，始终将高产品质量、易操作性和生产线高适用性置于首位。您的竞争优势始终是我们的目标。

In more than ten years of experience in manufacture of machinery and plants we have learnt what really matters in the production of the products. In the development of our systems, we put priority on a consistently high product quality, easy handling and high line availability. Your competitive advantage is our goal at all times.

质量 / QUALITY 长期合作

Reliable quality management certification system

我们在开发和制造挤出设备和收卷机时，以最苛刻的质量要求为标准。在质量监督方面，我们并不仅仅依赖自己的判断：除了我们自己的内部评估系统外，我们还定期请外部机构来确认我们的质量。

We develop and manufacture our lines and winders to meet the most exacting demands for quality. We built perfect means of quality supervision and inspection systems.

单丝生产线

Monofilament lines

生产稳定和高度自动化

Producing stability and highly automated

采用我们的生产线和设备, 生产出的高强度、低成本、高效能及均匀和高品质的产品将极大的说服你们的客户。

生产的单丝可满足造纸工业的最高质量要求, 还有丝网印刷, 过滤分离, 汽车行业 (间隔织物、编织绳, 轮胎帘子布), 传送带, 搭扣带, 窄幅织物等。

Using our machines and equipment you will convince your customers with high yarn tenacity, low maintenance costs, high efficiency as well as even and high yarn quality.

Monofilament yarns are used for technical fabrics, such as paper making cloth, screen printing, filtration & sieving, automotive, conveyor belt, hook & loop, narrow fabrics, for brush & broom, for concrete reinforcement, for twine/rope, nets and industrial fields.



高品质产品

quality master XBX-MF

线径公差小且稳定

keep tolerances consistently low

为了获得极小的线径公差, 在使用XBX-MF 系统生产时, 除采用分区模头加热技术外, 你还可持续监测细丝的直径及均匀性。

For very low diameter tolerances we use die with segmented heating zone and continuously monitor the diameter and slub of monofil during production

高速

HIGH SPEED

生产速度高达500m/min

Producing monofil up to 500m/min

使用XBX-MF单丝设备, 细丝生产速度可达500m/min甚至更高。

With XBX-MF monofilament systems, you can produce 500 monofilament per minute, even more.

挤出技术

Extrusion

挤出机采用原料的广泛性

Processing a wide range of raw materials

XBX-MF能处理几乎所有聚合物。根据原料的选择, 我们能采取不同的加工工艺来应对。

XBX systems can process almost all polymers. Depending on the selection, we configure the appropriate line concept

应用实例

examples of applications

造纸工业 / Paper industry

- 成型网 Forming
- 毛毯网 Pressing
- 干网 Drying

刷丝/Bristles

- 扫把丝 Brooms
- 牙刷丝 Tooth brushes

人造草坪丝 Artificial grass

娱乐/Recreational activities

- 钓鱼线 Fishing lines
- 网球线 Tennis strings

混凝土纤维/Concrete fibers

塑钢带生产线

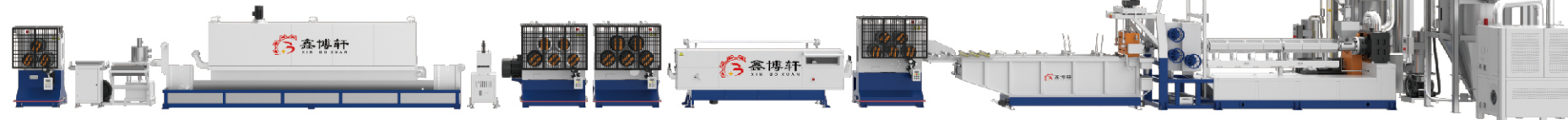
Strapping tape lines

直接处理100%的再生材料

Direct process of 100% PET recycling material

利用XBX塑钢带生产技术, 能处理新料和100%回用PET片料。从聚合物到塑钢带的转换可在一个生产步骤里完成。能生产具有最高强度和最佳经济性的塑钢带。

With the XBX strapping tape technology you are able to process both virgin raw materials and hundred percent PET flakes. The conversion from polymer to Strapping tape takes place in a single production step. Produce tapes of very high strength especially economically.



高速 / HIGH SPEED
生产塑钢带速度高达240米/分钟
 Producing strapping tape up to 240m/min

XBX塑钢带生产线拥有市场上最快的生产速度。该生产线能以240米/分钟的速度高效生产小规格的塑钢带。市场上生产设备的速度很难达到200米/分钟。即便如此高速生产, 仍可百分之百生产稳定的高质量的产品。
 XBX strapping tape lines are the fastest on the market. Producing small tapes very efficiently, with a line speed of up to 240m/min. currently 200m/min is usual. You can always rely on one hundred percent on the product quality, even at such high speeds.

可持续性 / SUSTAINABILITY
加工100%的再生材料
 Process 100% recycled materials

XBX技术能顺利将100%的瓶片料转化为高质量的塑钢带, 采用低成本的原料生产成为可能。
 The XBX technology can process hundred percent bottle flakes and turned it into high-quality PET strapping tape. That enables you to produce high quality products form cost-efficient raw materials.

高品质生产 / QUALITY MASTER
每一个卷装产品都在品控中
 Every single spool under control

采用XBX控制系统, 带子的宽度厚度可以实时记录, 并及时纠正偏差。
 Reduce the reject rate in your production and create quality certificates or labels for each individual bobbin. XBX system. records and logs the width and thickness of all tapes at the same time. deviations can thus be corrected in time.

- 塑钢带应用实例:**
 examples of applications
- 棉花. cotton
 - 饮料. Beverage
 - 钢材. Steel
 - 建材. stones
 - 包装. packages
 - 木材等. wood etc

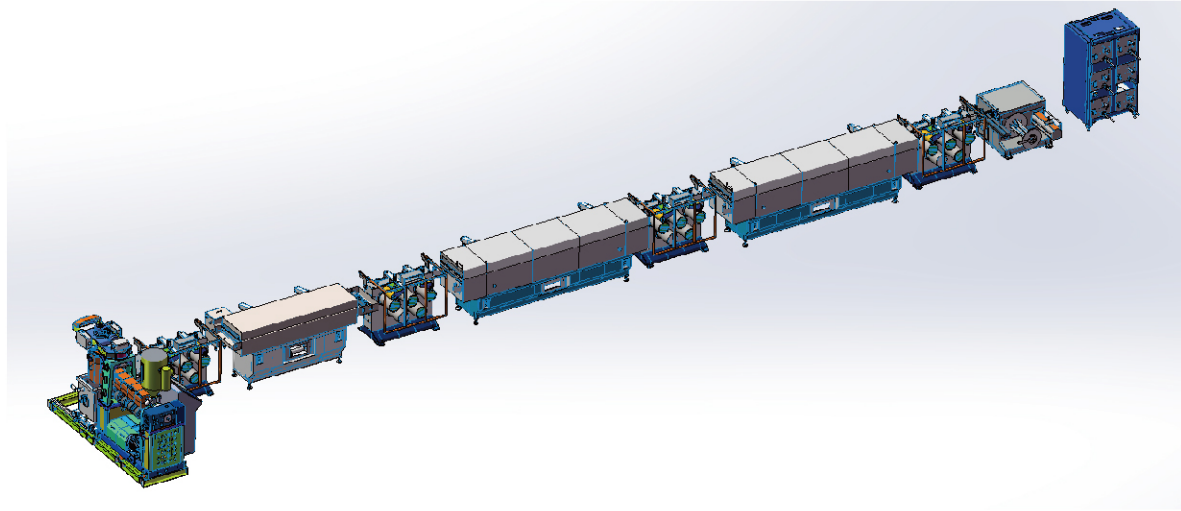
钢带的替代品
 substitution of steel straps

原材料 raw materials
 PET 粒料或片料; PP粒子

单线产量 output
 120 ~ 1000kg/h

试验型单丝拉丝机

Extrusion Line XBX-LAB 35 for Technical Monofilaments



鑫博轩提供研究机构实验室及工厂小型拉丝机试样机型XBX-LAB 35

Utilizing the same extrusion module, Xinboxuan can also provide specialist laboratory and pilot melt spinning systems for monofilament applications.

Our flexible monofilament system are being used by high tech organizations, research institutes on a variety of technical and R&D projects and being used by factory for trial production.

主要特点 Main features

- 挤出系统满足广泛的原料测试（防腐、阻燃、耐酸）
Extrusion systems can process a wide range of raw materials due to flexible line concept such as PP/PE/-PET/PBT/PA66.6.10/PEN/PFA/PTFE/POM/PLA/PVDF/ PEEK
- 水冷槽和单丝干燥单元，万用牵引机配备多级拉伸区、拉伸速度和拉伸比，不同辊径及可调温的辊筒。
Water quench and filament drying units, versatile draw stands with infinite number of draw zones, draw speeds and draw ratios, can be supplied with heated rolls in various diameters
- 多种拉伸箱体，热风/热水/蒸汽/热板，远红外加热系统满足高温需求
Various types of stretching devices, hot air, hot water, draw plates and infra-red systems with high temperature capability
- 配备恒张力收卷机或模拟恒张力收卷机，适用工字管、喇叭管等
Take-up systems on flanged spools or precision cross wound
- 在线线径检测系统
In-line diameter monitoring
- 采用工控机，记录各种工艺参数及变化趋势
A computer aided process data acquisition system which records and monitoring all relevant machine parameters
- 实验线设计紧凑，适应狭小空间的布置，长度不超过10~30米；
模块化设计，单机均可移动（脚轮）
Compact design for limited space with length 10~30meters

双组分单丝挤出技术

Extrusion technology for Bi-component monofilament

双组分熔体纺丝

Bi-Component melt spinning

鑫博轩设计制造高技术含量的双组分挤出系统用于生产皮芯单丝。设备可以加工多种塑料原料也包含一些加工难度高的材料。

XBX designs and manufactures high technology bi-component extrusion systems for the production of conjugate technical filaments. Equipment is available to produce from a variety of polymer types including difficult to process materials.

双挤出机与复合纺丝头组合可加工功能性纺织材料

Conjugate melt spinning a tool for engineering functional textile materials

可充分发挥聚合物的特性

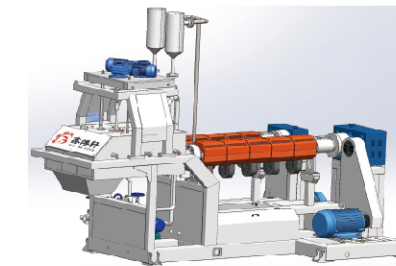
Allows maximization of polymer properties

可提供生产机型及试验机型加工单丝

Available for monofilament in both production and pilot scale

能加工双组分单丝，比如皮芯丝

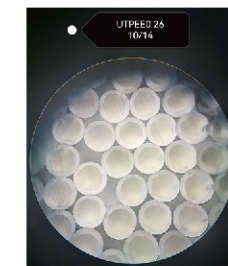
Capable of producing a bi-component types, such as sheath core



双组分挤出机组 extruder



双组分组件 die



双组份丝截面图 Section of Bico-monofil

双组分挤出设备的典型应用

Typical applications of bi-component extrusion equipment

采用鑫博轩双组分挤出设备加工的皮芯丝有广泛的技术应用

Conjugate Yarns made on XBX systems are used for a variety of technical applications:

功能性纺织材料 Functional textile materials

生物医药材料 Bio medical materials

合成材料 Yarns for composite materials

过滤应用 Filtration applications

非织造及针织布 Woven and knitted fabrics



TPU皮芯丝 TPU monofilament TPU皮芯丝应用Application of TPU monofil



刷丝生产线 Extrusion Lines for Bristles

单螺杆/双螺杆挤出机

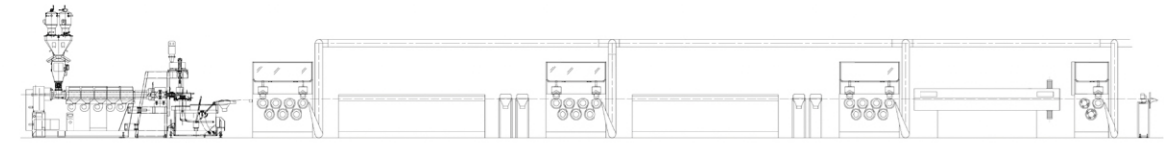
Single or Twin screw extruder

- 可采用 PET 回收料, PA,PBT,PP树脂
Extruderlayout for PET Flakes *); PET, PA, PBT, PP pellets
- 可达2000根单丝 (与线径及原料有关)
Up to 2.000 filaments (depending on diameter and raw material)
- 采用半自动及全自动收卷
Semi and fully automatic hank winders
- 半自动收卷机生产速度可达200m/min
Production speed up to 200 m/min with semi- automatic hank winder

应用: 刷丝及扫把丝
Applications: Brushes , brooms etc.



用于绳、缆、网等工业领域的单丝机组 Monofilament for twine/rope, nets and industrial fields



鑫博轩绳、缆、网等工业领域的单丝机组专门设计用于生产绞绳、编织绳、渔网、工业防护网, 缆绳, 还有混凝土增强纤维。

The XBX RM extrusion line is designed for the manufacturing of twisted ropes, fishing nets, woven nets, industrial web, fiber concrete reinforcement.

主要特点 Main features

- 原料采用PP,HDPE,PA 和PET树脂 From PP,HDPE,PA and PET
- 高强度 High tenacity
- 极低的延伸率控制 Limit elongation control

在渔网和绳索应用领域里, 市场非常关切HDPE纱线的两个关键指标: 断裂强度和断裂延伸率。对于断裂强度而言, 市场设定的标准为7.5克/旦(66.8cN/tex), 而采用鑫博轩技术, 则可达到11.5克/旦 (102cN/tex)。断裂延伸率越高对渔网和绳索起到负面效果。采用鑫博轩拉丝机生产出来的产品断裂延伸率在14-16%, 其他设备生产的产品断裂延伸率大多在22~25%。

For the fishing nets and ropes applications, the market is focused mostly on HDPE grades able to reach two key properties: tenacity and elongation at break. For tenacity, the best values from standard products and lines today set about 7.5gr/Denier (66.8cN/tex), an high level of material tenacity. With special extrusion line by Boxuan, properties of product can reach 11.5 gr./Denier (102cN/tex).

The high elongation at break could be negative for fishing nets and ropes. Boxuan extrusion line can supply products with low elongation at 14-16% instead of general values 22~25%.

Product	Ø mm	HDPE [kg/h]	PP [kg/h]	Monofil n°	Tenacity HDPE [gr/den]	Tenacity PP [gr/den]
XBX RM 800/75	0.15	38	42	240	7.0	6.5
	0.25	86	94	220	6.5	6.0
	0.40	130	160	180	6.5	5.5
XBX RM 1000/100	0.15	48	52	300	7.0	6.5
	0.25	110	120	280	6.5	6.0
	0.40	200	210	240	6.5	5.5
XBX RM 1400/115	0.15	65	70	420	7.0	6.5
	0.25	150	165	392	6.5	6.0
	0.40	80	290	336	6.5	5.5

人造草坪丝生产线

Extrusion line for the production of artificial turf

草丝生产主要采用的原料为PP, LLDPE, PA, 鑫博轩提供运动草坪及景观草坪用单丝生产设备,可生产单组分/双组分单丝及双色或3色草丝。

PP, LLDPE, PA are the basic raw materials used for yarn for sports, leisure and landscaping applications. Various shape monofilament mono and bicomponent, bicolor or 3-color can be produced on Xinboxuan extrusion line.

运动草坪丝

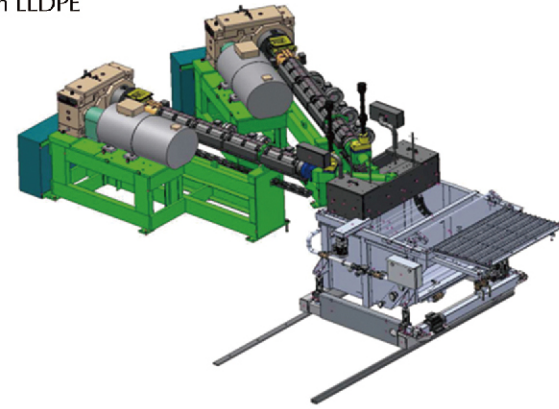
Sports

- 低收缩率、低弯曲度的LLDPE双色丝
- Bi-color monofilaments yarn from LLDPE with low shrinkage and low curl
- LLDPE双组份 (共挤工艺) 及双色丝
- Bi-components (co-extrusion) and bi-color monofilament yarn from LLDPE
- 提高草丝的回弹性和使用寿命
- Improved resilience and long sport life

景观草坪丝

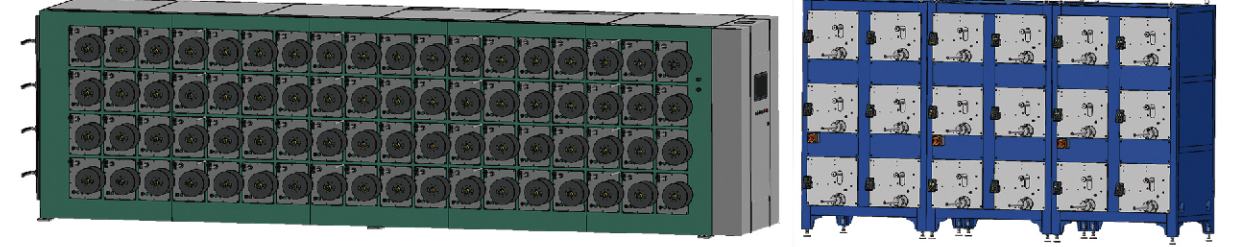
Landscape

- PP双色空变丝
- Bi-color textured monofilament yarn from PP
- 高速生产低成本并显著提升草丝的回弹性
- With high speed for low production cost and improved resilience



单丝收卷机

Winder for monofilament



平行绕单丝直径0.06~4毫米; 复合丝600~6000丹尼尔。

— For the parallel winding of monofilaments from 0.06 to 6000 denier count into flanged bobbins, cops or bottle tubes.

终端产品用于织网, 割草绳, 鱼线, 造纸网等

— Product end use: nets, grass, trimmers, fishing lines, paper making cloth etc.

模块化结构

— modular structure

通过摆臂及独有的电子驱动来自动调节卷绕张力

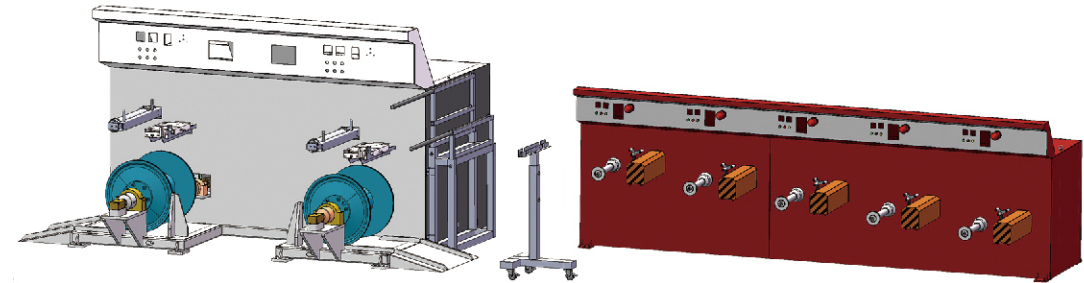
— adjustable automatic tension control via dancer arm and proprietary electronic drive

附加计米器和除静电装置

— additional accessories such as meter counter and anti-static devices.

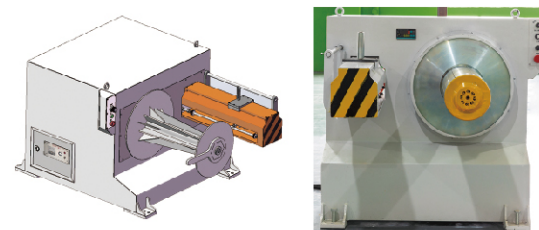
大盘收卷机

Jumbo winder for monofilament



开机收卷机

Start-up winder for monofilament



打包带收卷机

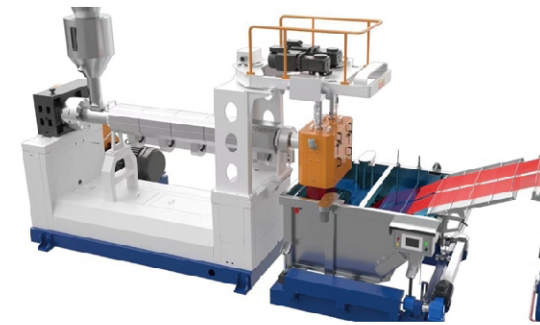
Auto winder for PET/PP strapping tape



厂区展示 Factory overview



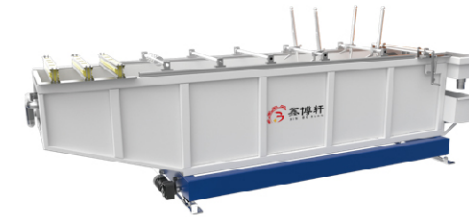
设备展示 Machine overview



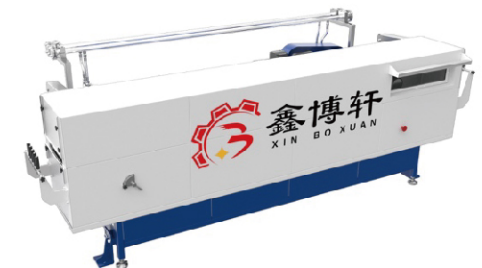
单丝主机 Extrusion group for monofil



打包带主机 extrusion group for PET/PP tapes



冷却水槽 quench tank



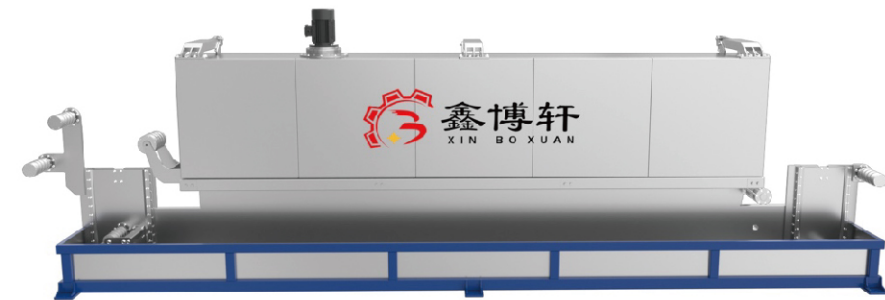
打包带拉伸烘箱 stretching oven for PET tapes



打包带拉伸机组 Draw stand for PET tapes



单丝拉伸机 draw stand for monofil



定型烘箱+水冷槽组合 annealing oven+ water cooling tank