

南京科威挤出机械有限公司
Cowell Extrusion Machinery

ISO9001-2000 CE



www.cowellextrusion.com



南京科威 您专业的挤出系统合作者

Cowell Extrusion Your Extrusion System Partner





南京科威挤出机械有限公司长期从事高聚物加工装备的自主研发、设计、制造。公司核心团队拥有超过十五年的专业挤出设备的设计和生产经验。同时与国内知名高校及研究所进行广泛深入的合作，不断优化提升现有产品结构和品质，紧跟高分子材料前沿研究方向，进行新产品的研发与应用。

科威公司秉承"质量第一,服务至上,不断创新"的理念,为广大客户提供优质的定制化产品和服务。



Cowell Extrusion is professional supplier of R&D, manufacturing of polymer processing equipments. We have powerful capability of R&D and production. Our team which has more than 15 years experience in plastic extruder designing, production & sales. Meanwhile, we have very good cooperation with well-known universities and R&D center in China to optimize the product structure and quality. We always focus on the new plastic machinery innovations & applications, following the new trend of polymer development.

Cowell Extrusion will provide good quality products and service to our valued customers under the principle of "First Quality, Best Service, Constant Innovation"

丰富的产品机型，为客户提供专业的解决方案

Rich product models, to provide customers with professional solutions

目前公司主要产品有高速高扭矩双螺杆挤出机，高效节能单螺杆挤出机，板片材挤出生产线，发泡生产线，水下切粒系统，微型双螺杆实验机。产品主要应用于填充改性造粒，聚合反应挤出，脱挥，食品挤出，药品挤出，一步法成型挤出等。

Our main products includes high speed high torque twin screw extruder, eco-friendly single screw, flat die extrusion for sheet，plate & film and foam board, under water pelletizing system,micro lab twin screw extruder. The main application of the machines is compounding, polymerizing and reaction extrusion, devolatilization, food extrusion, pharmacy extrusion, direct extrusion, etc.

CWT双螺杆造粒机组
CWT Twin screw extruder pelletizing system



CWS单螺杆回收造粒机组
CWS Single screw recycle extrusion line



CWL实验室挤出系统
CWL Laboratory extrusion system



板片材挤出生产线
Sheet/Plate/Board Extrusion line



CTS双阶配混挤出机组
CTS Two-stage compounding line

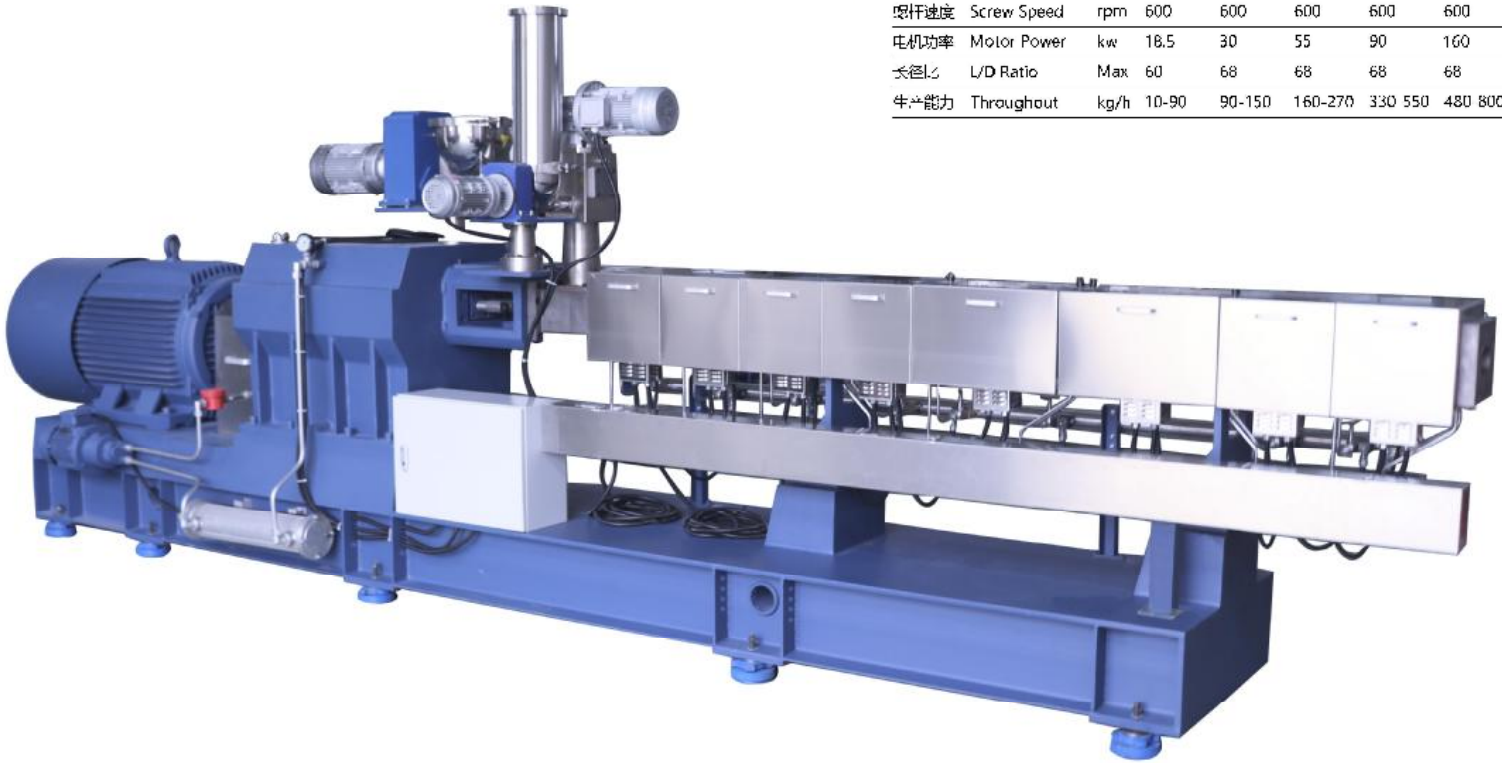


发泡挤出生产线
Foaming Extrusion line



CWT^{Eco}普通型双螺杆挤出机

CWT^{Eco} Normal Twin Screw Extruder



CWT^{Eco}技术参数

CWT^{Eco} Technical Parameters

设备型号	Type		35	40	52	65	75	95	135
螺杆直径	Screw Diameter	mm	35.6	41	51.4	62.4	71	93	133
螺杆速度	Screw Speed	rpm	600	600	600	600	600	600	600
电机功率	Motor Power	kw	18.5	30	55	90	160	250	650
长径比	L/D Ratio	Max	60	68	68	68	68	68	68
生产能力	Throughout	kg/h	10-90	90-150	160-270	330 550	480 800	750-1400	1800-3000

特点 Feature

- ●拥有高性价比
- ●最高设计转速600RPM
- ●多种控制系统可选
- ●多种切粒方式可选

- ●High price/performance ratio
- ●Maximum screw speed: 600rpm
- ●Various electric controlling systems
- ●Various pelletizing systems

典型应用 Typical Application

- ●填充&共混改性
- ●低烟无卤阻燃改性
- ●PVC&CPVC 挤出造粒
- ●反应脱挥挤出造粒
- ●生物降解材料造粒

- ●Filling & Modification
- ●Low smoke halogan-free modification
- ●PVC&CPVC Compounding
- ●Reaction & devolotization
- ●Bio-degradable materials pelletizing

CWT^{Plus}高扭矩双螺杆挤出机

CWT^{Plus} High Torque Twin Screw Extruder

CWT^{Plus}技术参数

CWT^{Plus} Technical Parameters

设备型号	Type		35	40	52	65	75	95	135
螺杆直径	Screw Diameter	mm	35.6	41	51.4	62.4	71	93	133
螺杆速度	Screw Speed	rpm	600/800	600/800	600/800	600/800	600/800	600/800	600/800
电机功率	Motor Power	kw	22/30	45/55	90/110	160/220	250/315	400/550	700/900
长径比	L/D Ratio	Max	60	68	68	68	68	68	68
生产能力	Throughout	kg/h	50-100	100-200	200-400	400-1000	600-1200	1000-2500	2000-4000



特点 Feature

- ●配置高扭矩传动箱
- ●最高设计转速800RPM
- ●德国HOFLER磨齿机加工齿轮
- ●齿轮材质及热处理与进口齿轮一致
- ●采用进口INA/SKF轴承

- ●Equipped high torque gearbox
- ●Maximum screw speed: 800rpm
- ●Gear produced by HOFLER from Germany
- ●Material and heat treatment same as import gear
- ●Equipped INA/SKF bearing

典型应用 Typical Application

- ●功能母粒制备
- ●增强改性（玻纤，碳纤等）
- ●工程塑料改性
- ●PET免结晶干燥挤出

- ●Functional masterbatch
- ●Reinforce modification(Glass-fiber, Carbon-fiberetc)
- ●Engineer plastic modification
- ●PET dry-free, crystallization-free extrusion

CWT^{Mega}超高扭矩双螺杆挤出机

CWT^{Mega} Super High Torque Twin Screw Extruder

针对近年客户对高端双螺杆挤出机的需求，科威公司推出了全新CWT^{Mega}系列高端双螺杆挤出机,该挤出机核心零部件从欧洲原装进口,确保了整机的高质量，高精度。相比同款进口设备,具备非常高的性价比优势。

CWT^{Mega} is a super high torque twin screw compounder which is for customer who is looking for a high quality machine compare with European suppliers. The main parts are fully imported from Europe.It's your ideal choice if you are looking for such good function/price ratio machine.

CWT^{Mega}技术参数

CWT^{Mega} Technical Parameters

设备型号	Type		35	40	52	65	75	95	135
螺杆直径	Screw Diameter	mm	35.6	41	51.4	62.4	71	93	133
螺杆速度	Screw Speed	rpm	600/900	600/900	600/900	600/900	600/900	600/900	600/900
电机功率	Motor Power	kw	37/45	55/90	110/185	200/315	315/400	630/900	900/1300
长径比	L/D Ratio	Max	60	68	68	68	68	68	68
生产能力	Throughout	kg/h	80-150	150-250	250-500	500-1300	600-2000	1200-3200	2500-6000



特点 Feature

- ●配置进口传动箱
- ●最高设计转速900RPM
- ●Bibby/Autoguard 安全联轴器
- ●螺纹元件采用德国进口粉末冶金材料
- ●原装进口H13芯轴
- ●螺纹元件槽径比高达1.7

- ●Equipped imported high torque gearbox
- ●Maximum screw speed: 900rpm
- ●Coupling imported from Bibby/Autoguard
- ●Screw elements are made of HIP imported from Germany
- ●H13 screw shaft import from Brasil
- ●Do/Di up to 1.7

典型应用 Typical Application

- ●工程塑料改性
- ●色母粒，阻燃母粒以及助剂母料制备
- ●聚烯烃/TPE合金填充
- ●弹性体改性(TPE,TPR,TPV,EVA,等)

- ●Engineering plastic modification
- ●Color masterbatch, flame retardant & additive masterbatch.
- ●TPO/TPE alloy filling
- ●Thermoplastic modification(TPE,TPR,TPV,EVA .Etc)

CTS 双阶配混挤出机组

CTS Two Stage Extrusion System

CTS 技术参数

CTS Technical Parameters

设备型号	Type		52/120		65/150		75/180		95/250	
螺杆直径	Screw Diameter	mm	51.4	120	62.4	150	71	180	93	200
螺杆速度	Screw Speed	rpm	400-600	70-90	400-600	70-90	400-600	70-90	400-600	70-90
电机功率	Motor Power	kw	55-110	22-37	90-160	45-75	132-250	75-110	315-550	90-132
生产能力	Throughout	kg/h	200-400		350-600		600-1500		800-2000	



特点 Feature

- ●将双螺杆和单螺杆挤出机的优势互补
- ●双螺杆实现输送,剪切,塑化,及无背压挤出,提高挤出产量
- ●单螺杆低速冷却，建压挤出，螺杆芯部通水冷却
- ●降低熔体温度，达到物料的最佳品质

- ●Combined both advantages of twin screw and single screw extruders
- ●Twin screw for conveying, efficient shearing, plasticizing, mixing & dispersion, free back pressure, increase the throughput
- ●Single screw for cooling and building pressure by low speed running
- ●Cooling down the hot melt and making the best quality production

典型应用 Typical Application

- ●PVC 电线电缆
- ●PE，EVA过氧化物交联
- ●低烟无卤阻燃料
- ●木塑造粒
- ●热敏性材料反应挤出

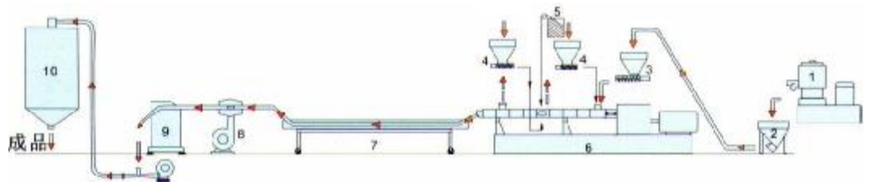
- ●PVC wire & cable compounding
- ●PE,EVA peroxide cross-link
- ●LSHF flame retardant material
- ●Wood Plastic compounding
- ●Heat sensitive material reaction

灵活的切粒系统

Flexible Pelletizing System

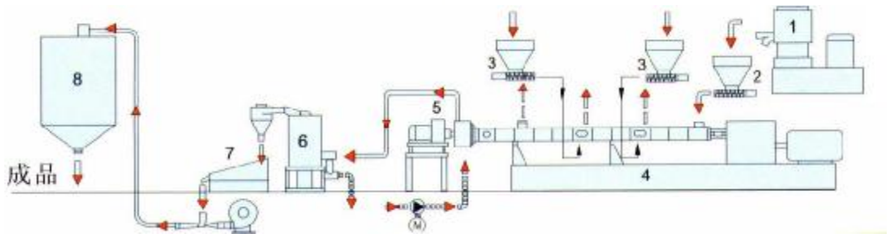
水冷拉条切粒系统

Strand pelletizing system



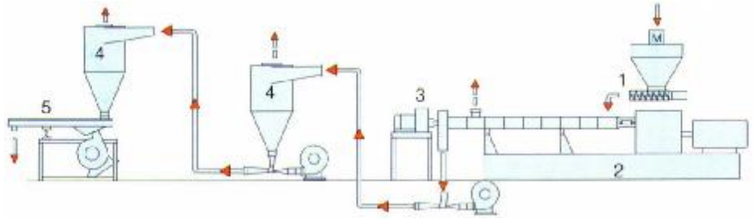
水环模面切粒系统

Water ring pelletizing system



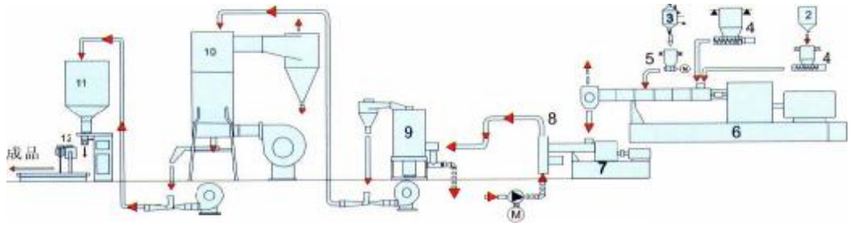
风冷模面切粒系统

Air cooling Die face pelletizing system



偏心水雾切粒系统

Eccentric pelletizing system



灵活的切粒系统满足各种不同物料的加工工艺需求

Flexible pelletizing system to meet the processing requirements of different materials

水下切粒技术参数

Technical Parameters of Under Water Pelletizing System

设备型号	Type		UW100	UW300	UW500	UW800	UW2000
生产能力	Capacity	kg/h	10-150	100-400	200-600	400-1000	1000-2000
模板孔数	Holes		4-15	10-20	15-30	24-48	40-80
电机功率	Motor Power	kw	2.2	4	5.5	7.5	11
水泵功率	Water pump	kw	2.2	4	4	5.5	5.5
调刀结构	Knife		Manual	Pneumatic	Pneumatic	Pneumatic	Hydraulic







典型应用 Typical Application

- ●弹性体
- ●热熔胶
- ●可降解塑料
- ●色母粒
- ●微粒径：0.7-1.5mm

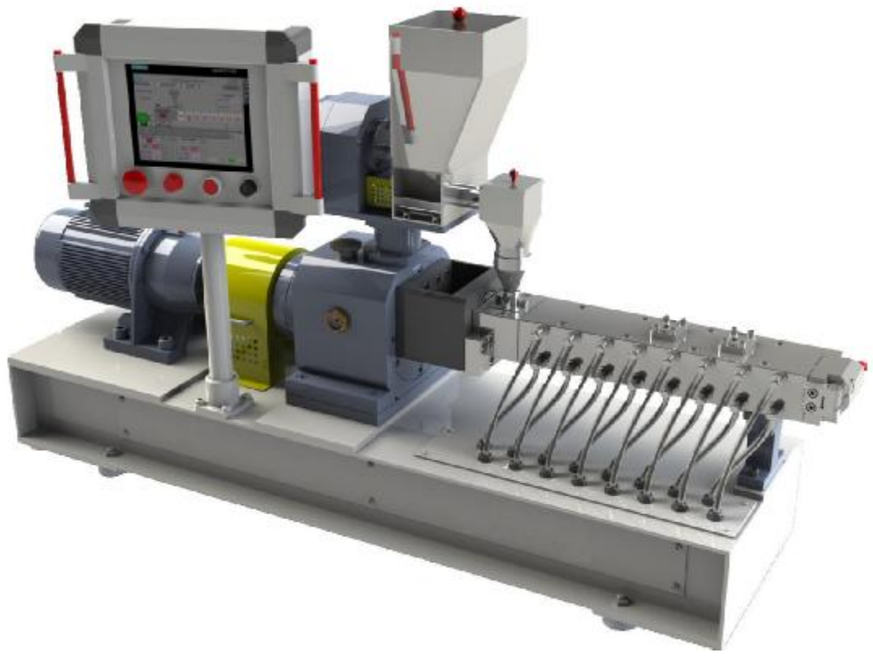
- ●Elastomer（TPU\TPE\TPV\SBS\SEBS）
- ●Hot melt adhesive
- ●Biodegradable plastic
- ●Color masterbatch
- ●Micro particles: 0.7-1.5mm

CWL实验室挤出系统

CWL Laboratory extrusion system

针对客户新产品开发的需求，科威公司推出了全新CWL系列实验室挤出系统。该系列挤出机做工精致，小巧灵活，可根据客户实验室的空间做定制化的特殊设计。

In response to customers' demand for new product development, Cowell Extrusion launched a new CWL series laboratory extrusion system.This series of extruders are exquisite in workmanship, compact and flexible, and can be customized according to the space of the customer laboratory.



特点

●紧凑的外形设计，节省使用空间
●小巧而精准的元件设计，实现完美的微量挤出
●PLC与可视的操作界面，实验数据完整存储

CWL技术参数

CWL Technical Parameters

设备型号	Type		16	20	26	30
螺杆直径	Screw Diameter	mm	15.6	22.4	25.6	30.2
螺杆速度	Screw Speed	rpm	600	600	600	600
电机功率	Motor Power	kw	2.2	7.5	11	15
长径比	L/D Ratio	Max	52	52	52	52
生产能力	Throughout	kg/h	1	2-10	10-30	20-50



Feature

●Compact shape design, saving space
●Compact and accurate component design, realize the perfect micro extrusion
●PLC and visual interface, complete storage of experimental data

CWS单螺杆回收造粒机组

CWS Single Screw recycle extrusion line

针对各种塑料产品的回收造粒需求，科威公司推出了全新CWS系列高效单螺杆回收造粒系统。该回收系统效率高，产量大，能耗低，维护方便。

Aiming at the recycling and pelletizing demand of various plastic products, Cowell Extrusion has launched a new CWS series efficient single-screw recycling and pelletizing system.The system is high efficiency, large output, low energy consumption and easy maintenance.



特点 Feature

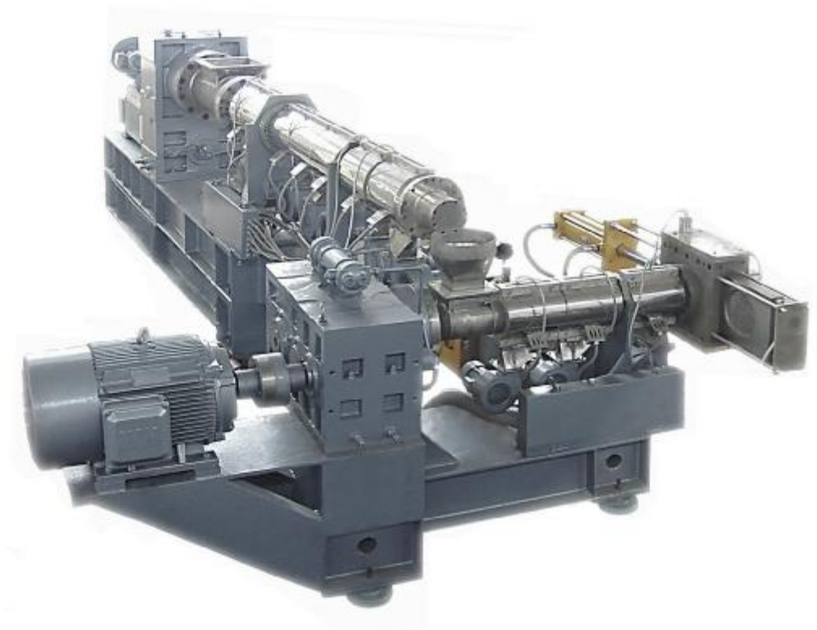
- ●高效，节能，高产量
- ●操作简单，维护方便
- ●灵活的机型组合可实现过滤与改性的完美组合
- ●特殊的单螺杆结构设计，满足各种不同形状的回收料加工工艺

- **●High efficiency, energy saving and high output**
- **●Simple operation and convenient maintenance**
- **●Flexible combination of models can achieve the perfect combination of filtration and modification**
- **●Special single screw structure design, to meet a variety of different shapes of recycled materials processing technology**

CWS技术参数

CWS Technical Parameters

设备型号	Type		90	120	150	180	200
螺杆直径	Screw Diameter	mm	90	120	150	180	200
螺杆速度	Screw Speed	rpm	120	120	120	120	120
电机功率	Motor Power	kw	55	75	110	132	160
长径比	L/D Ratio	Max	35	35	35	35	35
生产能力	Throughout	kg/h	100-150	150-250	200-350	300-500	500-800



典型应用 Typical Application

- ●各类塑料产品的回收造粒
- ●结合板片材生产线需求的定制设计

- **●All kinds of plastic products recycled granulation**
- **●Can be customized the special design according to requirement of foam and sheet line**

片材挤出生产线

Sheet/Plate/Board extrusion line

科威公司不光在造粒领域拥有丰富的行业经验，在板片材直接挤出方面，也拥有完善的最优解决方案。对于许多产品来说，双螺杆挤出机在技术和成本控制方面的显著优势使其成为板材/薄膜生产的一种趋势。它不仅提高了竞争力，而且为环境保护做出了贡献。

Cowell Extrusion not only has rich experience in the compounding industry, but also can give perfect solutions in sheet/plate extrusion. For many products, the noticeable advantages in technical and cost control have been making twin screw extruder the best choice in sheet/film production. Not only has it enhanced competitiveness, but made contribution for environment.

PVC,EVA,PE,降解片材挤出生产线

PVC,EVA,PE and biodegradable sheet extrusion line



特点 Feature

- ●更节能
  对于一些需要预干燥的树脂，直接挤压可以节省高达40%的电力。
- ●更高的生产效率
- ●灵活的配方改变
- ●更优质的终端产品
- ●RTD更精确的控制

- **●More energy-saving**
  For some resins that requires pre-dry, direct extrusion can save electricity up to 40%.
- **●Higher productivity**
- **●Flexible recipe change**
- **●Better quality end products**
- **●More accurate control in RTD**

PET片材挤出生产线

PET Sheet/Film extrusion line

对于PET片/膜的制作，我们直接进行挤出。传统的预干燥工艺已完全从整个过程中去除。无论是100%的PET颗粒或薄片或新料，还是它们的混合物，我们的系统都可以很容易地处理它

For PET sheet/film production, we go direct. Conventional pre-drying procedure has been completely removed from the whole process. Either 100% PET pellets or flakes or virgin, or mixture of them, our system can easily handle it



特点 Feature

- ●免结晶干燥技术
- ●高效的真空系统，保证小的粘度降
- ●优化螺杆设计，避免产品发黄
- ●更加人性化和智能化的闭环控制
- ●根据客户需要可做单层，多层A-B-A结构

- **●Pre-drying-free technology**
- **●High efficient vacuum system keeps IV drop minor**
- **●Optimized screw design avoids yellowing**
- **●More user-friendly and intelligent close-loop control.**
- **●Could do single & multi-layers**

TPO防水卷材挤出生产线

TPO Water-proof sheet extrusion line

TPO防水卷材是由热塑性聚烯烃加入抗氧剂，防老化剂，软化剂等挤出成型的,中间有聚酯网布增强层，表面附以织物纤维，铝膜而制成的新型防水卷材。TPO防水卷材具有有一的柔韧度和耐候性,主要应用于地下室，隧道，屋面等建筑防水领域。科威公司采用最新的实心轧辊复合工艺，可使得TPO防水卷材的抗风揭性能达到进口产品的技术水准。

TPO water-proof sheet is made of thermoplastic polyolefin, anti-oxidant, anti-age agent, softener,etc. There is polyester fabric layer for reinforcement. The surface is laminated with textile fiber and aluminum foil. This TPO has the features of flexibility & weather resistance. Mainly used for basement, tunnel , house,etc architecture and other water-proof fields



产品特点 Product Feature

- 耐侯性:超强的耐紫外线,耐自然老化能力，防水效果能长达50年。
- 不含增塑剂，所以没有其他卷材因增塑剂渗出、迁延而引起的快速老化现象，使得卷材寿命更长。
- 耐根系渗透性好，可做成种植屋面。
- 高撕裂强度、高断裂延伸性，具有良好的抗变形能力。
- 环保且可循环利用

- **Weather resistance: super uv resistance, natural aging resistance, waterproof effect up to 50 years.**
- **Do not contain plasticizer, so no other coil due to plasticizer extrudation, delay and causes the fast aging phenomenon, causes the coil life to be longer.**
- **Good root permeability, can be made for a planting roof.**
- **High tear strength, high fracture elongation, good deformation resistance.**
- **Environment friendly and recyclable .**

石头纸片材挤出生产线

Stone paper extrusion line

传统的造纸工艺需要消耗大量水和木浆、植物纤维等资源。我们现可利用高填充技术将丰富的矿物和化工资源用以代替最紧缺的水及木材资源。产品可广泛应用于包装纸、包装板、新闻纸、文化纸、功能专用纸，胶带纸等行业。

The traditional paper making process requires consuming huge amount of water and wood/plant fiber resources. Now we can use the stone plastic technic to replace its most scarce water and wood resources with abundant mineral and fossil oil resources. The production can be widely applied in packing paper , packing sheet, newsprint, functional paper, adhesive tape industries,etc.



技术参数 Technical Parameters

- 产品厚度：**0.04-0.6mm**
- 产品宽度：**300-2000mm**
- 产品比重：**1.2-1.5g/cm^3**
- 产品具有良好的拉伸强度
- 优异的印刷性能

- **Product thickness: 0.04-0.6mm**
- **Product width: 300-2000mm**
- **Density: 1.2-1.5g/cm^3**
- **The product has good tensile strength**
- **Excellent printing performance**

整合全套设备，致力于系统技术工程服务

Integral Customer Solutions, from Intake to Shipping






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