地址:南京市溧水经济开发区中兴东路7号

address:7# Zhongxing East Road, Lishui Economic Development Zone, Nanjing 邮编(Zip code):211100

国内售后服务(After Sale):86-25-52657505

海外服务热线 Overseas service hotline: 86-25-52657506

传真(Fax):86-25-52657507

Http://www.hsextruder.com

Http://www.haisijichu.com

E-mail:laohu1998@sohu.com

### 华南服务点 South-China Service Centers:

广东东莞售后服务部 After-sales Service Center in Dongguan, Guangdong 广东顺德售后服务部 After-sales Service Center in Shunde, Guangdong 广东深圳售后服务部 After-sales Service Center in Shenzhen, Guangdong

#### 华东服务点 East-China Service Centers:

浙江慈溪售后服务部 After-sales Service Center in Cixi, Zhejiang 浙江柳市售后服务部 After-sales Service Center in Liushi, Zhejiang 浙江永康售后服务部 After-sales Service Center in Yongkang, Zhejiang

#### 华北服务点 North-China Service Centers:

河北文安售后服务部 After-sales Service Center in Wen'an, Hebei 山东青岛售后服务部 After-sales Service Center in Qingdao, Shandong

> 南京凯荣机电科技有限公司 Nanjing Kairong Machinery Technology Co.,Ltd.

> 南京海思挤出设备有限公司 Nanjing Haisi Extrusion Equipment Co.,Ltd.





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南京海思挤出设备有限公司 Nanjing Haisi Extrusion Equipment Co.,Ltd.



# 宁为价争 莫为质忧 质为立 诚为源



我们坚信 信赖源

Haisi Extrusion | Equipment 专业承载未来

We firmly believe that trust bases on quality, profession promises the future.





# Nanjing Kairong Machinery Technology Co.,Ltd. Nanjing Haisi Extrusion Equipment Co.,Ltd.





总经理:丁凯

南京凯荣机电科技有限公司是南京海思挤出设备有限公司的全资 子公司,南京凯荣专营于对外贸易,南京海思专职于设备制造、维护 与工艺开发。

南京海思挤出设备有限公司是由一批多年来在挤出机行业研发、 生产、销售、服务的团队组建的高新技术公司。目前主要致力于高效 单、双螺杆混炼挤出机为主的成套设备制造及相关工艺,直至交钥匙工程。根据物料体系和工艺过程,实现配混装备结构设计优化,融机电, 工艺一体化,是我们多年经验积累与综合技术的集中表现。

南京海思挤出设备有限公司的产品系列涵盖同向双螺杆配混机组、密炼混合、单螺杆挤出机组及配套辅助设备等等。

今天,随着科技的巨大发展,塑料和橡胶工业对于我们的生活越来越重要,保障我们的生活,提高我们的生活质量和改善环境。几乎每天,通过研究、发展和改进,改良材料的应用范围变得更广阔,提供了越来越多革新的终端产品。在此背景下,塑料和橡胶工业需要具有丰富经验和进步的伙伴,海思正是这样一个提供高品质设备的伙伴。

相信自己,选择海思是您明智的决择;相信我们,优质服务是永远的承诺!

Nanjing Kairong Machinery Technology Co., Ltd. is a branch of Nanjing Haisi Extrusion Equipment Co., Ltd. Kairong concentrate on foreign trade, while Haisi focus on equipment manufacturing, maintenance and tech. process development.

Nanjing Haisi Extrusion Equipment Co., Ltd is a high-tech manufacturing and trading company in China. "Family" is our benchmark. We work efficiently and help each other whenever anyone is in need due to the same target, that is, to make best quality of extruders in China.

Our company is a professional manufacturer of granulating extruders for coloring/dyeing, filling masterbatch production, as well as plastic modification and compounding, plastic recycling. Innovative machines are built as per the concept of durability, high efficiency and economical power consumption. And we also have substantial experience in R&D, technique and after sales service. And for some materials, we supply turn-key project.

Company is in strict accordance with CE and ISO9001 quality certification system for production management. There are over 200 models of extruders and spare parts. Factory has CNC center, grinding machines, cutter, puncher, etc to meet customers' requirements on extruders and spare parts.

Our annual production capacity is 240 sets of plastic extruder in domestic countries and abroad! OEM service offered in granulating plastic extruder industry in consistence with specific requirement from both national and international customers.

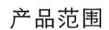
Our machines are widely used in China mainland, and have been exported to 30 countries and places over the world. Surely you will also get professional machines and characteristic services here. Let's create more together!

Equipment

中国製造司 礼证典应商 AUDITED SUPPLIER

Medical SGS





KAIRONG GROUP

TSE 系列同向双螺杆挤出造粒机组

TSH 系列同向双螺杆挤出造粒机组

SP 系列双阶混炼挤出造粒机组

TSC 系列异向造粒机组

各具特色的造粒系统





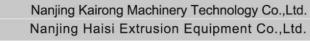












## **Products**

**TSE** Series Co-rotating Twin Screw Extruders

**TSH** Series Co-rotating Twin Screw Extruders

SP Series Two-Stage Compounding Extruders

TSC Series Counter-rotating Twin Screw Extruders



TSE-75D





- 欧式矩形筒体,优化布置逆流冷却流道,让D形区域温差更小。
- 创新设计的加热器紧固方式,确保高效传热和加热器高寿命。
- 根据物料及特定要求,简体材质可采用标准氮化钢、耐腐蚀或耐磨蚀 等特殊材质与处理方法。
- Euro style rectangle barrel, reflux refrigeration channel is optimized and disposed, which makes temperature difference in D areas smaller.
- Innovated design of heater tightened style insures high efficiency of heat transfer and high longevity of heater.
- · According to the material and special technics demands, the material of cylinder can use high quality nitrided steel, corrosion proof or antifriction with corresponding process.
- 切粒方式多元化: 如水冷拉条切粒、风冷模面切粒、水环模面切粒、 偏心水雾切粒、水下模面切粒等。
- Various modes of pelletizing, such as water cooling strand, air cooling pelletizing, water - ring pelleitizing, under water pelletizeing.etc.
- 螺杆元件采用精确的设计,通过精密加工,灵活的组合和互换性,实 现完成各种传输与混炼、建压、挤出及自清洁过程,材料采用优质38 CrMoALA或W6Mo5Cr4V2材质,经特殊热处理,具有高耐腐蚀性和 耐磨性。
- ssed, agile combination, with interchangeability. Which can fulfill efficient self - cleaning, transmission, compounding, pressure-forming,etc. The screw is made of high tool steel 38 CrMoALA or W6Mo5Cr4V2 by special heattreatment, which is possessed with high corrosion-resistant and high functions.

• The screw elements and kneading blocks are designed, by precise proce-



TSH-95D



• 采用积木式原理, 机组的长径比, 机筒及螺杆的 组合形式, 喂料方式, 换网及切粒方式, 电仪自 控模式均可根据工艺流程的要求进行组合, 实现 了广泛性、通用性、专用性的统一。

. The machines are designed by using the "toy bricks" principle, the screw configuration, barrel setup, L/D or mode of feeding and venting, screen changing,way of granulating,and the control mode can be optimally adjusted according to different materials properties and requirements in consideration of the versatility in each general applications.



TSH-95D

喂料形式多元化: 单螺杆、双螺杆、侧向喂料、液体加注系 统等,以适应粉料、粒料、块料以及液体料的不同喂料。

Metering feeders are equipped with single screw,twin screw,hollow screw, forced-feeding, side-feeding, system etc. to meet different requirements of feeding, such as powder, pellet, lump and liquid material.

新型齿轮传动系统:

- •新型平行三轴传动方案,减速与扭矩分配一体式,关键轴承进口。
- 计算机设计优化齿轮参数,强化设计安全余量。
- 传动部件选材讲究, 超高强度合金渗碳钢, 磨齿工艺, 齿面强化 处理,确保高扭矩、高精度、低噪音。
- 齿轮浸油润滑与喷淋润滑相结合的润滑方式。

New-style gear transmission system:

- New-style project of parallel three-axises driving makes the convey
- chain, decelerate and torque get together, which keep it compact, and the key bearings are imported.
- The computer designs to optimize gear parameters and strengthen safe overmeasure.
- The selected material of drive components is dainty. Including super intention alloy cementiteing steel, cementiting and grinding
- technics, strengthening of tooth face. So they can ensure high torque, high precision and low noise.
- · Soakage and spraying lubriation integrate smoothly.









TSE-25



TSE-40B 色母专用机 TSE-40B Color Masterbatch Making Extruder



TSE-20





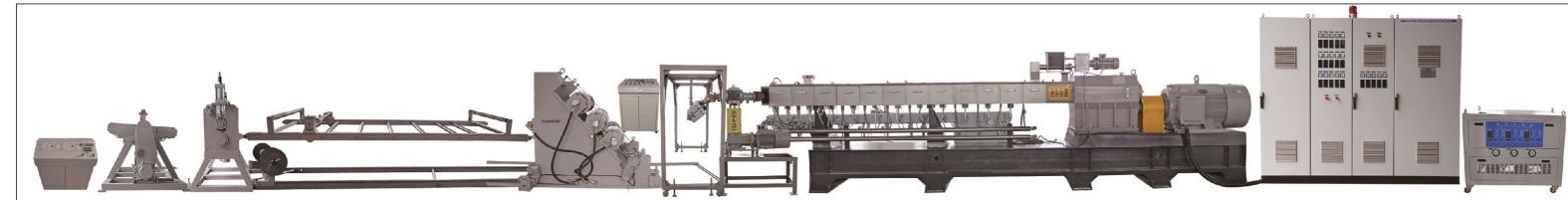
TSE-65D

Haisi Extrusion 8 Equipment

KAIRONG GROUP





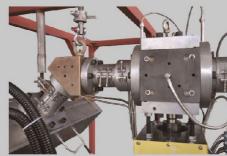


一步法片材机组 One-step sheeting extrusion with melt pump









NANJING HAISI

KAIRONG GROUP

## 平行同向双螺杆挤出造粒机组







# KABRONG GROUP

Co-rotating twin-screw extruder pelletizing system



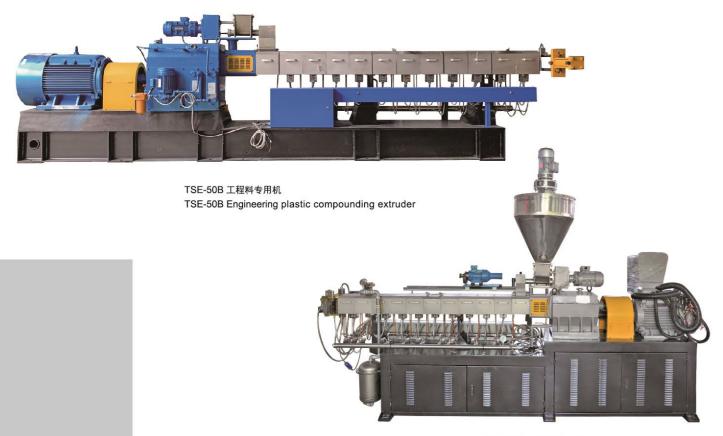
水下造粒平台组 Loss-in-weight platform

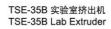






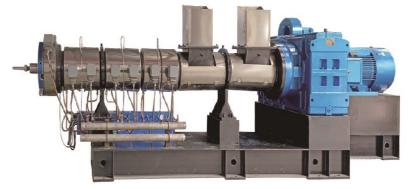




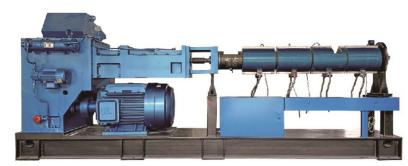




TSE-65D 生产线 TSE-65D Production Line



SJ-300 机组 SJ-300 Single Screw Extruder



TSC-80 双螺杆挤出机 TSC-80 Counter Ro-tating Twin Screw Extruder









PET 回收生产线 Recycling Line



PET 自动切生产辅机 PET Automatic Strand Pelletizer

Haisi Extrusion | 15

KAIRONG GROUP

Haisi Extrusion 16

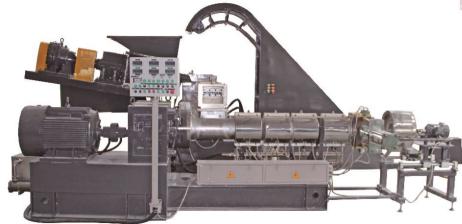


## 典型作业:

TSE 密炼机通常和上料机,锥双喂料机和平行双螺杆挤出造粒机配套使用,广泛应用于高填充母粒,炭黑母粒,等。该工艺流程的特点在于:增加填充量,提高产量和混炼效果,且无粉尘飞扬的现象。

### Typical Works:

Kneader, also called banbury mixer, usually is used with Bucket conveyor, Conical twin screw force feeder and Twin screw extruder pelletizing line for masterbatch and compounds. It has been widely used for high filler masterbath, carbon black masterbatch, etc. with the advantages of increasing filler ratio and output, improving good effect of dispersion and no dust.



SP-75/180 高填充密炼造粒机组 SP-75/180 high filler masterbatch pelletizing line



Bucket Conveyor



锥双喂料机 Conical Twin screw force Feeder



密炼机 Kneading Machine



密炼机试验机 Lab Kneading Machine









罗茨风机 Roots Blower



# NANJING HAISI





龙门式切粒机 Gantry Pelletizer



切粒机 Pelletizer









Haisi Extrusion 22
Equipment

KAIRONG GROUP



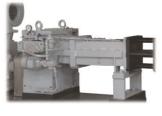




TSE-B 型齿轮箱 TSE-B Type Gearbox



TSE-D 型齿轮箱 TSE-D Type Gearbox



TSH-D型进口传动箱 TSH-Type-D Imported Gearbox



二铰链快开热切 Two hinge quick open die



混色机 Vertical mixer



立式混料机 Vertical Mixer



卧式混料机 Horizontal Mixer



高低混盖子带加热 Heating -cooling mixer



高速混合机 High speed mixer



齿轮箱 Gear box



进口箱 Imported Gear box



进口齿轮箱 Imported Gear box



<sup>B</sup>型齿轮箱 B-Gear Box



破碎机 Crusher





破碎机 Crusher



破碎机 Crusher



破碎机 Crusher



均化仓 Homogenizing silo



## TSE、TSH系列双螺杆机型参数表





#### --框架结构控制柜;

- --进口品牌控制元件;
- --进口温控系统;
- --进口驱动系统;
- --联锁、联控、多路保护。
- -- Frame structure control cabinet,
- --Imported electrical elements,
- -- Imported temperature control system,
- -- Imported driving system,
- --Interlock and multi-protection.



采用进口PLC (OMRON或SIEMENS)控制过程的优化控制,功能强 大、性能稳定、精度更高。

- -可实现整机的联锁保护,故障的预警、提示等。
- -触摸屏操作界面直观醒目,简单易用。
- --Adopting imported PLC (OMRON or SIEMENS) to achieve optimized process control. Stronger function, steady performance and much higher accuracy.
- --It can be also accomplished full-set link-lock protection, trouble safeguard, fault alarm cluing and so on.
- --Operation interface on touching screen is visual and marked, which is brief and easy to use.





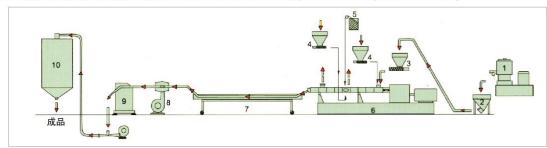
## Technical data of TSE, TSH twin-screw sxtruder

设备型号 Mode	螺杆直径 D (mm)	螺杆长径比 L/D	螺杆转速 N (r/min)	主电机功率 P (kw)	螺杆扭矩 T (N.m)	扭矩等级 T/N³	典型作业生产能力 Q (kg/h)
TSE-20	22	32-44	600	5.5-7.5	43	7.5	0.5-10
TSE-30B	31	32-48	600	11-15	119	6.7	5-40
TSE-35B	35.6	32-52	600	22	119	4.4	30-70
TSE-35D	35.6	32-52	600	30-37	302	7.2	40-90
TSE-40B	41	32-64	600	22-30	276	6.5	100-120
TSE-50B	50.5	32-52	500-600	55-90	596	8	180-270
TSE-52D	51.5	32-60	600	90-110	1860	8.9	270-500
TSE-65B	62.4	32-64	500-600	75-110	1719	7.5	250-350
TSE-65D	62.4	32-64	600	110-160	2101	7.2	300-500
TSE-75B	71	32-64	600	110-160	2101	5.4	350-550
TSE-75D	71	32-64	600	160-250	3997	9.2	400-800
TSE-95B	93	32-64	500	250	2387	5.3	600-1000
TSE-95D	93	32-64	600	315	3507	7.9	800-1500

<sup>\*</sup> TSH-D系列为进口齿轮箱, 扭矩等级均在9.2T/N3~11T/N3范围内, 生产周期16周。



#### 填充、共混、增强等拉条冷切粒机组 Strand Extruders for Filling, Compounding and Reinforcing



1.高混机 2.上料机 3.主喂料机 4.侧向辅助喂料机 5.长玻纤 6.双螺杆主机 7.水槽 8.吹干机 9.切粒机 10.成品料仓

1. High Speed Mixer 2. Loader 3. Main Feeder 4. Side Feeder 5. Long Glass Fiber 6.Twin Screw Extruder 7. Water Tank 8. Air knife 9. Pelletizer 10. Silo

增强改性:如PP、PA、PBT、ABS、AS、PC、POM、PPS、PET等加玻纤、碳纤;

共混合金: PC+ABS、PA+ABS、CPE+ABS、PP+EPDM、PA+EPDM、PP+SBS等;

填充改性: PE、PP、EVA等+碳酸钙、滑石粉、钛白粉、炭黑等:

电缆料: LDPE、HDPE、LLDPE、MDPE护套料、绝缘料;辐射交联料、光缆被覆料、热收缩管料;

专用料: PPR管材料、PE交联管材料、香烟滤芯材料、醋酸纤维等:

浓色母粒: PE、ABS、PS、EVA、PET、PP等+颜料、助剂等;

阻燃母粒: PP、PA、ABS、EVA、PBT等+阻燃剂、助剂等;

专用母粒:双防母粒、抗静电母粒、抗菌母粒、高保温母粒、降温母粒等;

可降解母粒: PP、PE、PS等+淀粉、助剂等。

#### Applications:

Fiber Reinforcement: glass fiber, carbon fiber reinforced PP, PA, PBT, ABS, AS, PC, POM, PPS, PET, etc.

Polymer Blending: blending of PC/ABS, PA/ABS, CPE/ABS, PP/EPDM, PA/EPDM, PP/SBS, etc.

Incorporation of Fillers: CaCO3, Talc, TiO2, carbon black filled PE, PP, or EVA etc.

Cable Compounds: cable sheath, cable insulation compounds of LDPE, HDPE, LLDPE, MDPE; radiation-

crosslinkable compounds, optical fiber protection compounds, heat-shrinkable polymer compounds.

Special Compounds: PPR pipe compounds, PE compounds for crosslinked pipes, tobacco filter compounds, etc. High Concentration Color Masterbatches: PP, PA, ABS, EVA, PBT,etc.with high concentration of pigments and other processing aids.

Masterbatches with Flame-Retardants: PE, ABS, PS, EVA, PET, PP etc. with flame retardants and other additives Special Functional Masterbatches: Masterbatches with anti-static, anti-bacteria, or other special functional fillers

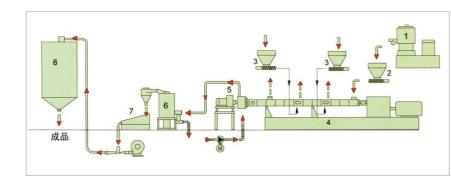
Masterbatches for Degradable Polymers: PP, PE, PS, etc, blended with high concentration of starch and other processing aids.

#### Haisi Extrusion | 27 Equipment





### 填充、共混、改性水环热切粒机组 Water Ring Extruders for Filling, Compounding, Modificating



#### 双螺杆聚合反应造粒机组 Reaction Extruders

- 1.失重喂料机 2.补给料仓 3.预混器 4.主机5.真空排气站 6.换网器 7.水下切粒机 8.离心脱水机 9.振动筛 10.成品料仓
- 1, Loss Weight Feeder; 2, Supplying Silo; 3, Mixer; 4, Main Extruder;
- 5, Vacuum Station; 6, Screen Exchanger; 7, Underwater Pelletizer;
- 8, Centrifugal Dewaterer; 9, Vibrating Screen; 10, Silo.

适用于:强烈的传热传质能力,狭窄的停时分布,极高的换热与扩散比表面, 连续化作业方式,对高粘、高温的条件苛刻的反应体系具有得天独厚之优势, PUR, PA, POM, PEI (聚醚酰亚胺)、PC、PMMA、PBT、PPS等连续聚合 反应挤出以及动态硫化、交联、接枝、扩链等反应挤出。

#### Applications:

Intensive heat and mass transfer ability, narrow residence time distribution, large surface to volume ratio, continuous operation, ideal for high viscosity, high temperature reaction systems. Continuous polymerization or reactive extrusion like dynamic vulcanization, crosslinking, grafting, and chain extension of PUR, PA, POM, PEI, PC, PMMA, PBT, PPS, etc.

- 1.高混机 2.主喂料机 3.侧向辅助喂料机 4.双螺杆主机 5.水环热切机 6.离心脱水机 7.振动筛 8.成品料仓
- 1, High Speed Mixer; 2, Main Feeder; 3, Side Feeder; 4, Twin Screw Extruder; 5, Water Ring Pelletizer; 6, Centrifugal Dewaterer; 7, Vibrating Screen; 8, Silo;
- 适用于: PE、EVA等+碳酸钙、滑石粉、钛白粉、炭黑等填充改性;

LDPE、HDPE、LLDPE、MDPE护套料、绝缘料;辐射交联料、

光缆被覆料、热收缩管料等电缆料;

PPR管材料、PE交联管材料: TPR、TPU等热塑性弹性体、

EVA及热熔胶等;

PE、ABS、PS、EVA等色母粒; ABS、EVA等阻燃母粒; PE、 PP、PS等填充降解母粒。

#### Applications:

PE, EVA etc. filled with CaCO3, talc, TiO2, carbon black etc.

Cable sheath, cable insulation compounds of LDPE, HDPE, LLDPE, or MDPE;

Radiation-crosslinkable, heat-shrinkable cable compounds;

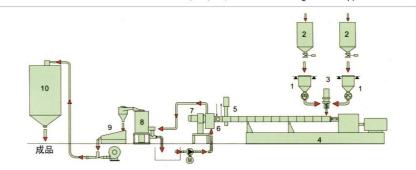
PPR pipe compounds, PE compounds for crosslinked pipes;

TPR, TPU thermoplastic elastomers; EVA and hot-melt adhesives;

Color concentrations of PE, ABS, PS, EVA, etc;

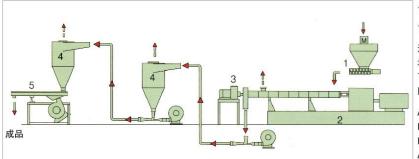
Flame retardant masterbatches of ABS, PS, EVA, etc.

Masterbatches with PE, PP, PS, etc carriers for degradation applications.



## 风冷热切造粒机组 Air-Cooling Extruders

KR



1.计量喂料机 2.主机 3.切粒机 4.旋风分离器 5.风冷振动筛

1, Metering Feeder; 2, Extruder; 3, Pelletizer; 4, Cyclone; 5, Vibrating Screen;

增强改性: PE、EVA等+碳酸钙、滑石粉、钛白粉、炭黑。

可降解母粒: PE、PS等+淀粉、助剂等。

阻燃母粒: PE、EVA等十三氧化二锑、氢氧化镁、氢氧化铝等。

Enforcing modification: PE, EVA etc. +CaCO3, Talc, TiO2, Carbon black.

Degradable master batch: PE, PS etc. +starch, additive etc.

Anti-flame master batch: PE, EVA etc. +Sb2O3, Mg (OH) 2, Al2 (OH) 3 etc.

#### 交联电缆料(XLPE)双阶造粒机组 Two Stage Extruders For XLPE

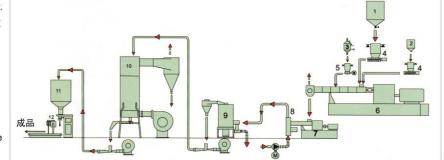
1, PE 料仓: 2, 料仓; 3, 液体储罐: 4, 失重喂料机; 5, 失重式计量泵; 6, 双螺杆主机; 7, 单螺杆主机; 8, 偏心水雾切粒机; 9, 离心脱水机; 10, 沸腾床: 11, 成品料仓: 12, 自动包装机:

1, Silo for PE; 2, Silo; 3, Liquid Tank; 4, Loss Weight Feeder; 5, Loss Weight Liquid Injection; 6, Twin Screw Extruder; 7, Single Screw Extruder; 8, Eccentric Water-spray Pelletzier;

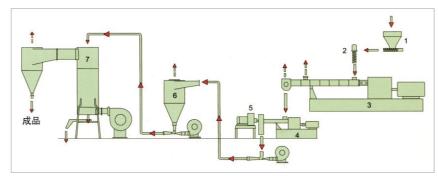
9, Centrifugal Dewaterer; 10, Boiling Bed; 11, Silo; 12, Automatic Packer. 适用于:双阶式机组的另一应用范例,与低压短流道机头、偏心水雾热切技 术相结合,使PE树脂、抗氧剂、过氧化物交联剂等实现高效低温混合混炼, 避免预交联。

#### Applications:

This is another application of Tandem Line. Together with special low pressure and short channel die as well as eccentric die-face cutting technology, the tandem line is capable of effectively mixing/compounding PE resins, antioxidants, and peroxides etc. at a low temperature, to minimize premature, crosslinking of polyethylene.



#### 双阶式风冷热切造粒机组 Two Stage Air-Cooling Extruders



物料挤出造粒流程图 Extruding & Pelletizing Flow Scheme

- 1.计量喂料机 2.立式强制加料机 3.双螺杆主机 4.单螺杆主机 5.风冷模面切粒机 6.旋风分离器 7.沸腾床
- 1, Metering Feeder; 2, Vertical Forcing Feeder; 3, Twin Screw Extruder;
- 4, Single Screw Extruder; 5, Air-Cooling Pelletizer; 6, Cyclone; 7.Boiling Bed;
- 特点: 将双螺杆高速、强混炼与单螺杆低速、低温、弱剪切特性相结合, 扬长避 短,相得益彰,为当今热敏性、剪敏性物料高效配混改性的首选机型。
- 适用于: PVC电缆料、鞋底料、透明瓶料、医用料等; 低烟无卤或低卤阻燃电缆料; EVA屏蔽料; PE、EVA炭黑母粒等。

Features: Combine the high speed and extensive mixing of processing and the low speed, low temperature, and low shear of single screw processing; Ideal for compounding of heat-and shear-sensitive materials

Applications:PVC compounds for cable, shoe sole, transparent container, and medical applications EVA shield cable compounds; Carbon black materbatches of PE, EVA, etc.

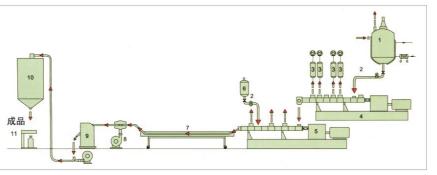
#### 蒸发脱挥后处理双螺杆造粒机组 Twin Screw Extruders After Devolatilization

- 1.反应釜 2.计量喂料泵 3.冷凝罐 4.多级排气双螺杆主机 5.双螺杆主机 6.载体注入 7.水槽 8.吹干机 9.切粒机 10.成品料仓 11.包装秤
- 1, Reactor; 2, Metering Feeder; 3, Condensator; 4, Twin screw extruder with multi-venting; 5, Twin Screw Extruder; 6, Carrier Injector; 7, Water Tank; 8, Air-knife; 9, Pelletizer; 10, Silo; 11, Packer;

适用于: CPE、CPP、CSPE、SBS、K树脂、EVA、PMMA、ABS、POM、 PS、PC、顺丁橡胶等高分子材料大容量脱挥排气,脱除未聚单体、 低聚物或溶剂、蒸发浓缩、稳定化处理等。

#### Applications:

High-volume degassing/venting of unreacted monomers, oligomers, and solvents in polymerization post-processing of CPE, CPP, CSPE, CBS, Kresins, EVA, PMMA, ABS, POM, PS, PC, polybutadiene rubber, etc.



Haisi Extrusion | 29 Equipment







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- ◆ 详细介绍产品特点, 认真了解生产需求;
- ◆ 根据加工物料和工艺, 为您策划最优的装备配置方案;
- ◆ 提供新工艺、新配方的试验条件。

## 售中服务

- ◆ 提供项目所需的公用工程条件、安装布置规划图等相关资料;
- ◆ 提供针对不同生产工艺需要的不同螺杆构成和简体排列形式;
- ◆ 及时与您沟通项目进度情况;
- ◆ 严格执行技术附件条款,确保产品按期保质交付。

## 售后服务

- ◆ 提供设备现场安装指导、全面调试、操作人员岗前培训;
- ◆ 建立详尽的用户服务档案,终身跟踪服务;
- ◆ 长期保证充足备件供应,长期提供免费技术咨询服务;
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#### Before-sale

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## During manufacturing

- ◆ Provide layout and engineering conditions
- ◆ Offer screw plan and related documents
- ◆ Inform the project processing status
- ◆ Insure the product designed in accordance with technical document

- Provide installation, commissioning and training
- Offer spare parts
- ◆ Provide necessary technical support and update information