

# ENGINEERING FOR TOMORROW'S WORLD

WITH INNOVATION AND SERVICE

百特机械 造福世界



河南百特机械设备有限公司  
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## 企业简介

## COMPANY PROFILE

河南百特机械设备有限公司成立于2013年，是一家集科研，生产，销售，服务，进出口于一体的高新技术企业。专业生产固体废物分选、回收再利用生产线，包括：固体橡胶塑料热解炼油设备、废油蒸馏设备、热解炭黑深加工设备、生物质炭化设备和城市生活垃圾分选设备。

公司科研人员通过成熟完善的有机高分子裂解技术和环保配套处理设备，把生活垃圾、油田废弃物、工业废料（废橡胶、废塑料、废品油、油页岩、岩沥青和天然沥青、生物废料等有机废料）进行无害化、资源化循环再利用，让废弃物变成具有经济效益的再生新能源。

自公司成立以来，凭借先进的生产工艺、一流的产品质量以及人性化的服务理念，经过多年的不懈努力，现已发展为裂解设备行业的领军企业。目前百特不仅为国外客户提供了优质的生产线交钥匙服务与整厂输出，同时注重设计工艺方面的经验积累和技术交流，先后独立式合作完成各大中小型裂解项目的基础及详细设计；与国际著名的工程咨询、工程设计公司以及国内的化工设计院保持着稳定的联系。随着自身化工设计能力的持续积累和进步，我公司整套设备已经出口到欧洲、韩国、中东、东南亚、非洲、南美，数十个国家和地区，受到国外政府和客户高度赞赏。

河南百特机械设备有限公司致力于环保产业，产品经CE、ISO等认证。一贯秉承“追求卓越，精益求精”的企业理念，立志在不久的将来解决全世界各个角落的固体垃圾，为后人创造一个更加清洁、明亮、美好的未来！

Beston (Henan) Machinery Co., Ltd. was founded in 2013 which is an innovative and high-tech enterprise, incorporating research, manufacturing, sales, service, import and export. Specializing in the production of recycling production line, solid waste separation, including Waste tyre, rubber and plastic pyrolysis plant, Oil distillation plant, Carbon black deep processing plant, Biomass carbonization plant, Municipal solid waste sorting equipment and other waste processing plant.

Through sophisticated organic polymer pyrolysis technology and environmental protection equipment, Company's researchers process the oil field waste, solid waste, industrial waste (waste rubber, waste plastic, waste engine oil, oil sludge, organisms and other organic wastes) for harmlessness, resource recycling, converting the waste into renewable energy economically.

Since the factory founded, with advanced production technology, first-class quality products and personalized service philosophy, after 18 years of unremitting efforts, we have been developed to industry leader. Beston provide foreign clients with a high quality line and focus on accumulating experience of design process and technological exchanges. And we have independently completed the basic and designing upon series of medium and big pyrolysis project. Also keep a stable connection with international renowned engineering consultation, engineering design companies as well as domestic chemical industry design institute. With the continued accumulation of own chemical engineering design ability and progress, our equipment has been exported to Europe, Middle East, Southeast Asia, Africa, South America, dozens of countries and regions, being highly appreciated by foreign Governments and customers.

Beston (Henan) Machinery Co., Ltd. is committed to environmental protection industries, products certified by CE, ISO, etc. Always take the "pursuit of excellence, keep improving" business philosophy, determined to solve solid waste in all corners of the world in the near future and create a cleaner, brighter, better future for later generations.

**BESTON MACHINERY**



企业资质证书  
Enterprise Qualification and certifications

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废旧橡胶/塑料热解设备  
Waste rubber/plastic pyrolysis plant



各型号照片  
PICTURES



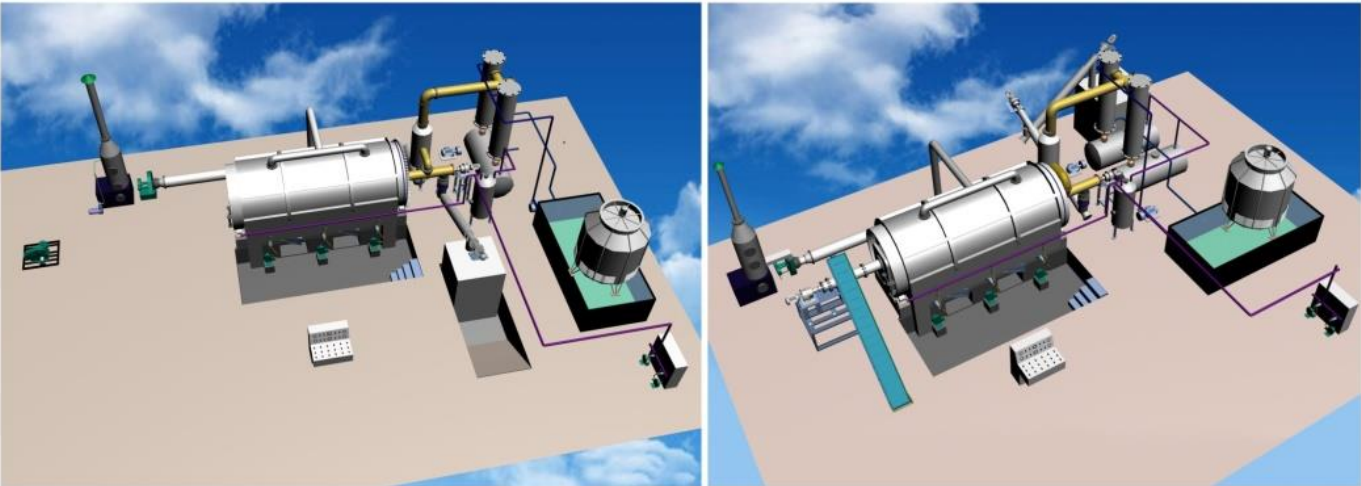
产品参数  
SPECIFICATIONS

Data	BLJ-6	BLJ-10	BLL-16	BLL-30
Daily capacity	6 MT	10 MT	20 MT	30MT
Working method	Batch		Semi-Continuous	Fully continuous
Operating pressure	Constant pressure			
Reactor rotate speed	0.4 turn/minute			Not rotary type
Total power	24 kw/h	30 kw/h	54 kw/h	53.6kw/h
Reactor size	D2.2*L 6.0m	D2.6*L6.6 m	D2.8 *L7.1 m	L12.5XW2.2 XH2.5m
Space for machine(L*W*H)	20*10*10 m	20*10*10 m	25*15*10 m	20*15*10m



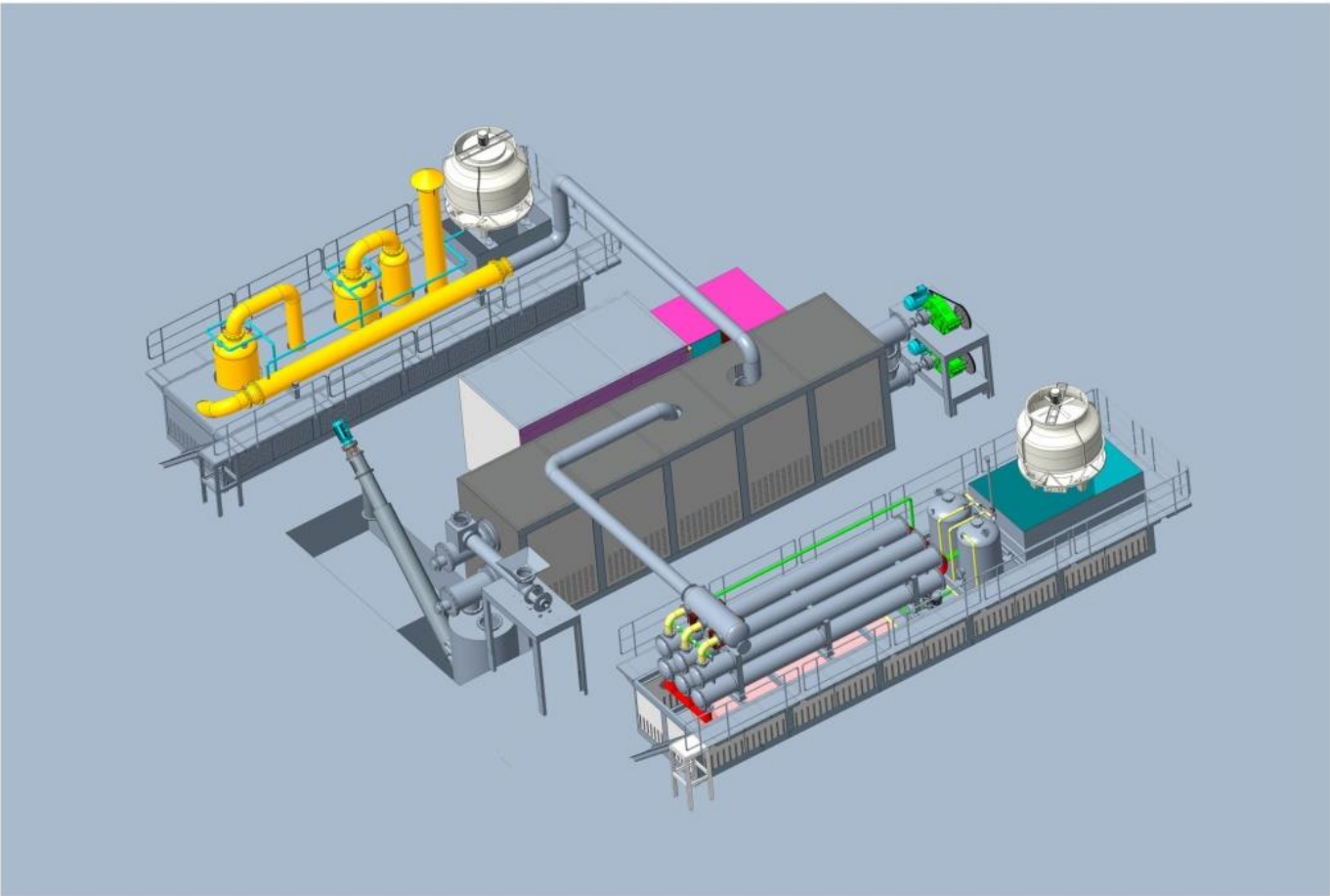


3D布局图  
LAYOUT



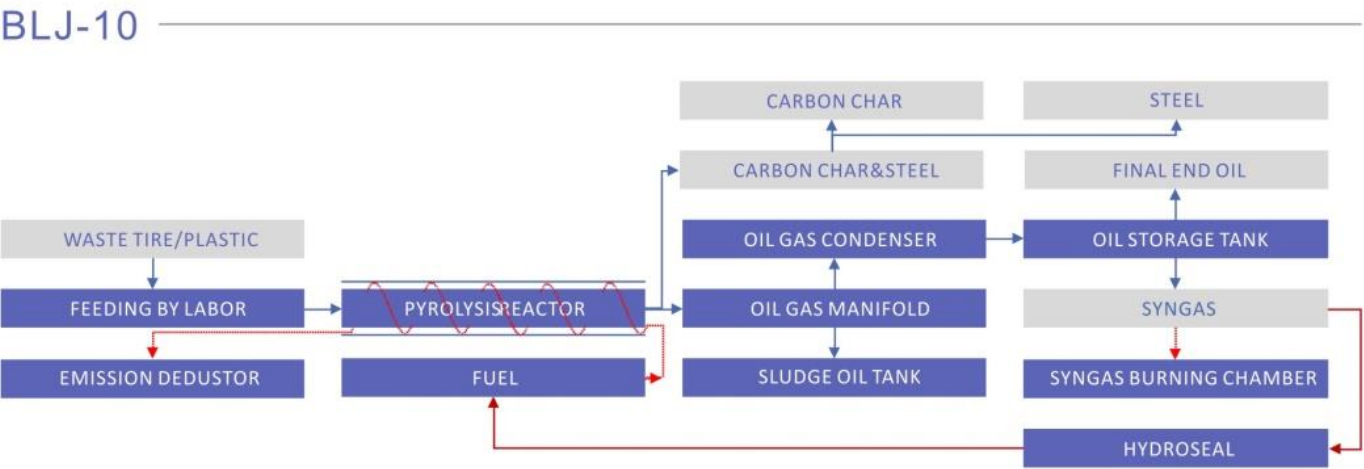
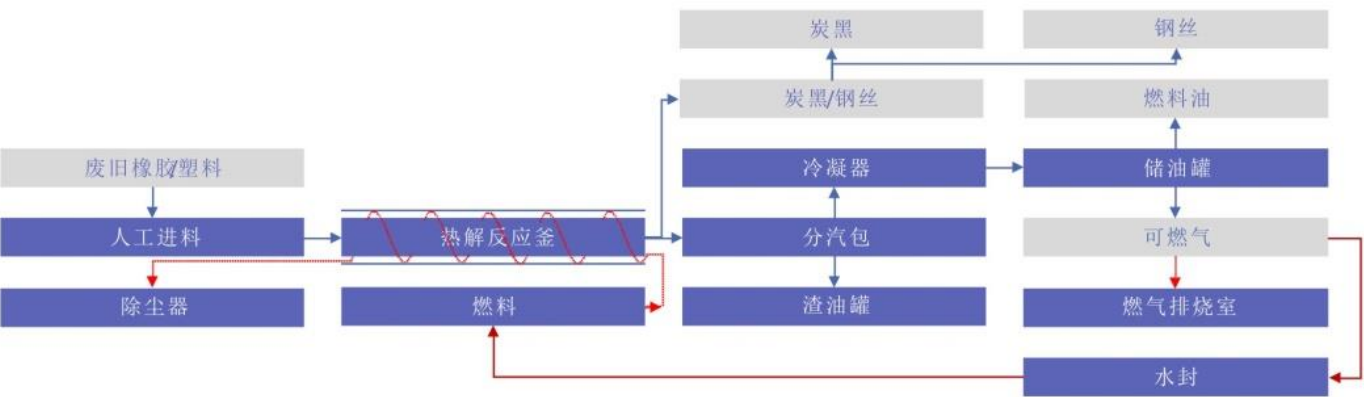
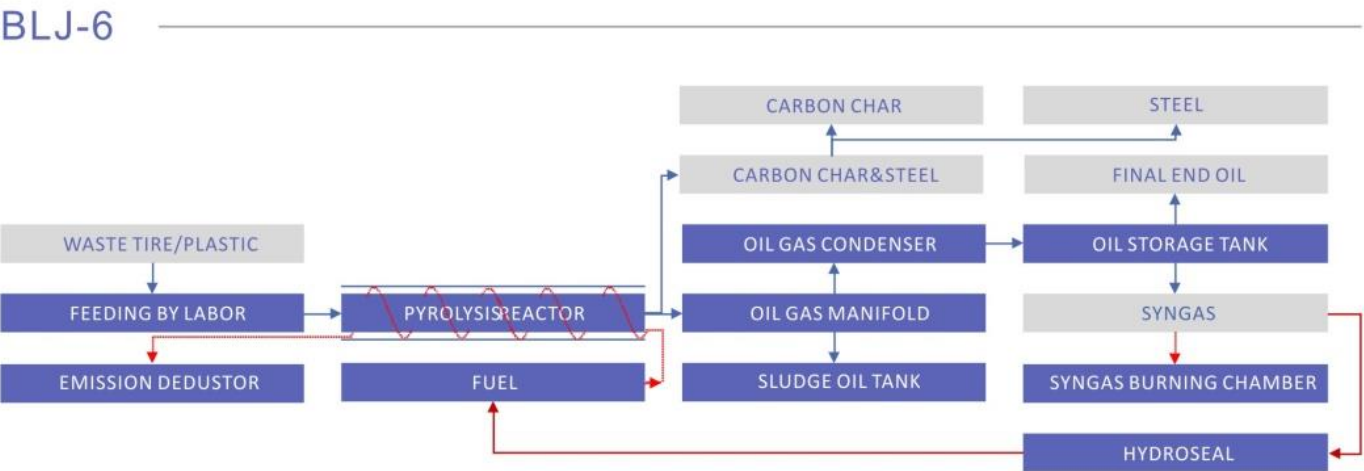
BLJ-6 and BLJ-10

BLL-16

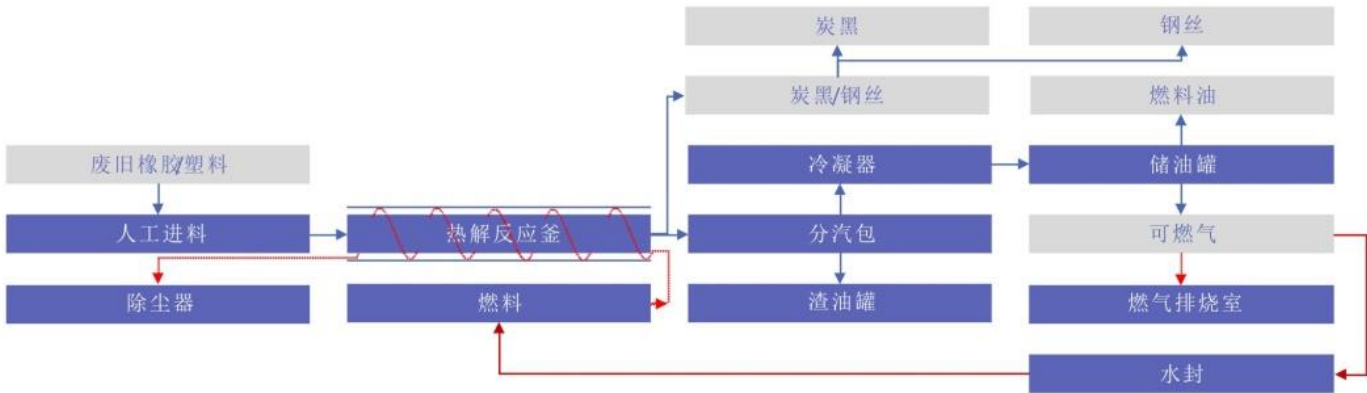


BLL-30

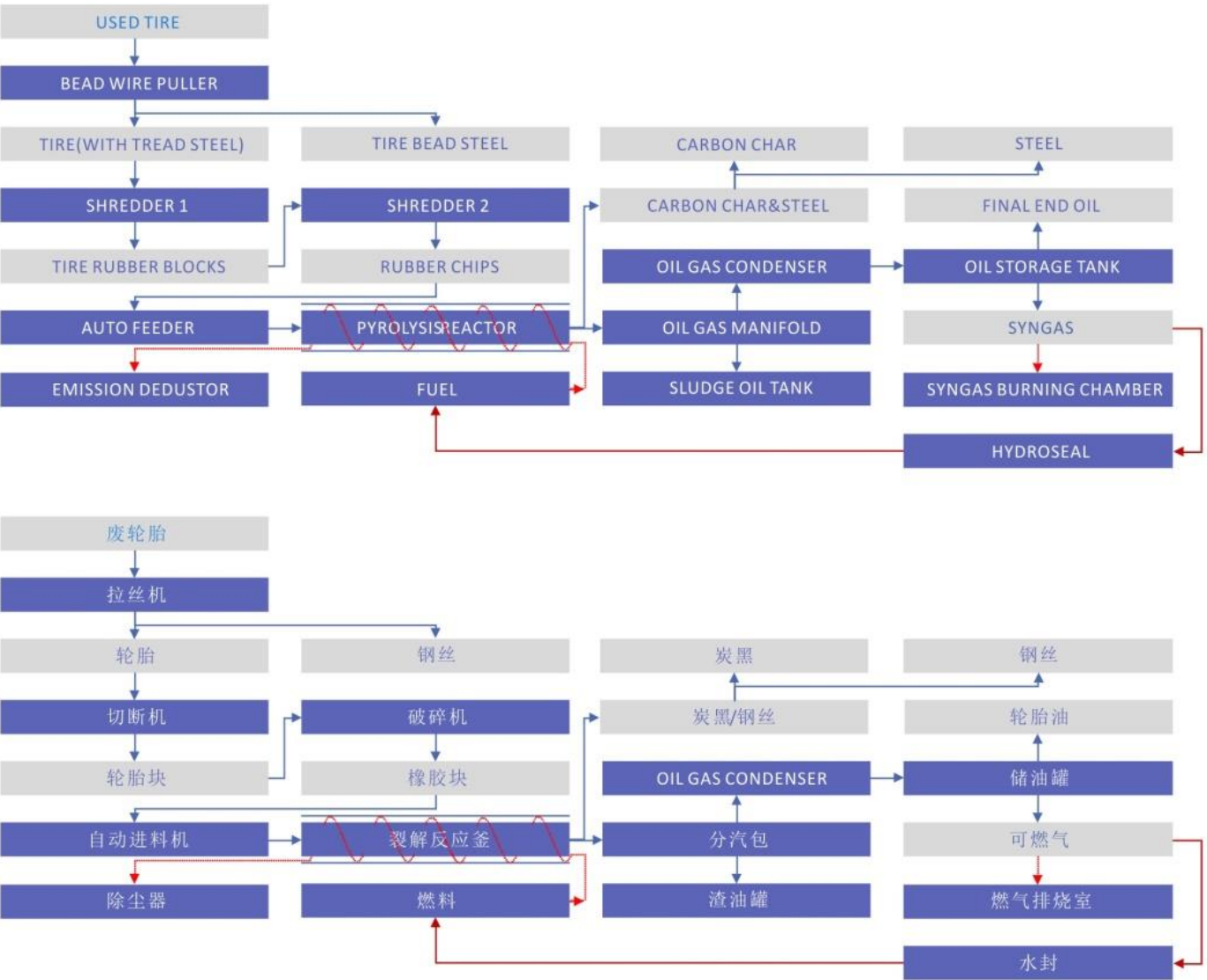
工作流程图  
OPERATION FLOW CHART







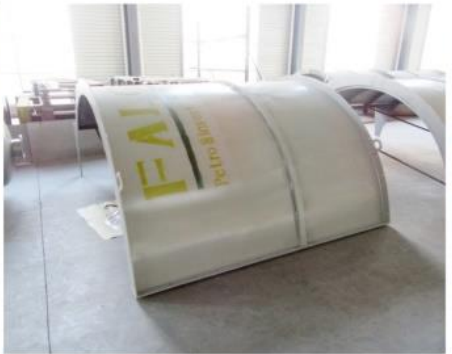
BLL-16



各个部件细节图片  
MAIN PARTS DISPLAY



主炉 Reactor



机壳 Casing



气包 Manifold



渣油罐 Heavy oil tank



油道冷凝器 Oil condenser



储油罐 Oil tank



水封 Hydroseal



烟道冷凝器 Flue tube condenser



冷却塔 Cooling tower



综合破碎机 Comprehensive shredder



减速机 Speed Reducer



集装箱式冷凝器 Container oil condenser



可利用原料和出油率  
AVAILABLE RAW MATERIAL AND OIL YIELD RATE



1-废旧轮胎热解炼油行业  
-以废旧轮胎，橡胶等为处理原材料，运用新型厌氧加热技术使橡胶分子裂解重组得到燃料油。配备超大热交换面积列管冷凝装置，可有效提高冷却效率和产品产出率。全系统密闭式设计，确保安全，环保，经济。  
-大汽车轮胎45%左右（钢丝多出油少点）      -小汽车胎、自行车胎35%左右  
-橡胶电缆皮、鞋底35%左右 混合鞋底30%左右 球鞋20-30%左右  
-废化纤地毯料：30%以上      -PMMA（有机玻璃）40%左右  
-杂橡胶：35%左右      -轮胎：钢丝、橡胶、碳黑，裂解速度稍快。  
-塑料：含成分多一些，裂解速度较慢。

- 1.Used rubber pyrolysis for fuel industry.
- Using used tire/rubber as material, the pyrolysis tech that attached with latest sealed thermal heating design, enables rubber molecule pyrolyze and parts of them are recombined into fuel.
  - Big car tires is about 45%.      • Car tires, bicycle tires is about 35%.
  - Rubber cables leather, shoe soles mixing are about 35%, shoes is around 20-30%.
  - Carpet waste material: more than 30%.
  - PMMA (plexiglass) 40%.      • Miscellaneous rubber: about 35%.
  - Tyres: steel, rubber, carbon black, cracking slightly faster.
  - Plastic: more composition containing, slower cleavage speed.



2-城市医疗垃圾热解炼油行业  
将生活垃圾和医疗垃圾普通直接装入裂解釜中，催化加热。  
Medical waste pyrolysis industry  
• Convert medical waste to oil.



3-通用塑料General Plastic  
-聚乙烯：PE（如薄膜、瓶子、电器绝缘材料、手提袋、水管、油桶、饮料瓶/钙奶瓶、日常用品等）纯的出油率95%左右  
-聚丙烯：PP（如薄膜、塑料绳子、食器、盆、桶、家具、编织袋、瓶盖、汽车保险杠等）纯的出油率90%左右。  
-聚苯乙烯：PS（如电器、文具、杯子、食品容器、家电外壳、电气配件、发泡品、玩具等）纯的出油率在90%左右  
-ABS工程塑料：40%左右  
-纯净白塑料布：70%左右

- Polyvinyl chloride PVC, polyethylene: PE (such as films, bottles, electrical insulating materials, handbags, pipes, drums, bottles / calcium bottles, daily necessities, etc.) pure plastic oil yield is about 95%.
- Polypropylene: PP (such as films, plastic rope, tableware, pots, barrels, furniture, bags, caps, car bumpers, etc.) of pure oil yield 90%.
- PS (such as electrical appliances, stationery, cups, food containers, appliance housings, electrical fittings, foam products, toys, etc.) of pure oil yield at 90%.
- ABS plastic: 40%.
- Pure white plastic sheeting: about 70%.



4-油泥  
油泥处理得到毛油，炉渣和可燃气体。  
Oil sludge.  
• Oil sludge to get crude oil, slag and gas.

终端产品  
END PRODUCTS



燃料油 Fuel oil

- 直接出售
- 用蒸馏设备加工成柴油
- 直接用作燃料
- Can be sold directly.
- Reprocessed into diesel and gasoline by use oil distillation machine.
- Can be used as fuel.



炭黑Carbon black

- 直接出售
- 用磨粉机加工成品质更高的炭黑。
- 制砖。
- Can be sold directly.
- Reprocessed into high quality carbon by the carbon black grinding equipment.
- Make carbon brick by briquetting equipment.



钢丝Steel wire

- 直接出售
- 压成钢坯
- Can be sold directly.
- Make steel bloom by hydraulic press-packing.

可燃气体Combustible gas

- 回收利用，加热炉体
- Can be as fuel heating the reactor



## 安全设计 SECURITY DESIGN

1. 产生的一部分烟气包含烷类从C1到C4的气体是不能被液化的，这部分油气经过水封起到了脱硫除杂的作用，然后再进入到废气燃烧室进行燃烧，相对来说很安全。
2. 水封具有脱氯除杂的作用，得到的干净的可燃性气体可直接回收利用，用来加热主炉，实现节约能源30%。
3. 全自动焊接技术，不仅提高工作效率而且充分保证设备焊接的质量可放心使用。
4. 专业的技术操作可以解决生产过程中的问题。
5. 专业的温度表，压力表可以随时监测温度和气压。
6. 最新式加热方式优点就是结合了直接加热和间接性加热的优点，使操作更加安全。
7. 100%防烧伤技术。
8. 100%的防爆技术。
9. 在生产过程中，废气燃烧室处于关闭状态，当压力过大时，将可燃性气体送入燃烧室直接排烧，实现迅速降温降压，是一项可靠地安全保障措施。
10. 防出口口阻塞技术。

1. The security of main device, the main components of the exhaust gas that cannot be liquefied are alkanes class from C1 to C4, whose direct burning is dangerous. Therefore, we shall make them passing the hydroseal which is the first safety device before recycling as the fuel, and further let them burning out in the gas burner which is the second safety device.
2. The hydroseal can stop the fire burning back while remove sulfur, imurities and keep cleaning desulfurization gas.
3. With auto welding machine for the machine, it can not only greatly improve working efficiency but also guarantee the welding quality.
4. Specific operating tech to deal with all the bug during the production.
5. Professional thermometer and pressure gauge to inspect temperature and pressure at any time.
6. The third generation of heating method which combines the advantages of direct and indirect heating . It is safe for the operation.
7. 100% Avoid burn technology
8. Explosion-proof technology for 100%
9. In normal operation, the exhaust gas burning room is closed , when temperature is too high, start the valve and directly fire the gas in the exhaust gas burning room , to realize reducing pressure quickly, it's a safety measure.
10. Prevent outlet valve clogging technique.

## 经典案例 SUCCESSFUL CASE



Running plant in Jordan(Installed in 2015) 约旦项目 2015年



Running plant in Jordan(Installed in 2015) 约旦项目 2015年



Running plant in Nigeria (Installed in 2014)



Running plant in Nigeria (Installed in 2014)



Pyrolysis machine in Brazil 2015 巴西项目 2015年



Pyrolysis machine in Brazil 2015 巴西项目 2015年



Running plant in Ukraine (Installed in 2014) 乌克兰项目 2015年



Running plant in Brunei (installed in 2018) 文莱项目 2018



工厂生产设施  
MANUFACTURE FACILITIES



数控切割 CNC cutting



切圆卷板 Rolling



全自动焊接 Auto Welding



打磨 Burnishing



抛光 Polishing



超声波探伤 Ultrasonic flaw detection

蒸馏设备  
Oil Distillation Plant

	Waste oil distillation plant				
	Batch Operating Plant		Auto Continuously Operating Plant		
Model型号	BZJ-06 Waste oil distillation plant BZJ-06 废油蒸馏设备	BZJ-10 Waste oil distillation plant BZJ-10 废油蒸馏设备	BZL-25 Waste oil distillation plant BZL-25 废油蒸馏设备	BZL-50 Waste oil distillation plant BZL-50 废油蒸馏设备	BZL-100 Waste oil distillation plant BZL-100 废油蒸馏设备
Raw material原料	Crude oil, waste oil, fuel oil, used engine oil 原油,废油,燃料油,废机油	Crude oil, waste oil, fuel oil, used engine oil 原油,废油,燃料油,废机油	Crude oil, waste oil, fuel oil, used engine oil 原油,废油,燃料油,废机油	Crude oil, waste oil, fuel oil, used engine oil 原油,废油,燃料油,废机油	Crude oil, waste oil, fuel oil, used engine oil 原油,废油,燃料油,废机油
Structural form结构形式	Vertical 立式	Vertical 立式	Vertical 立式	Vertical 立式	Vertical 立式
24-hour handing24小时处理量	6MT (吨)	10MT (吨)	25MT (吨)	50MT (吨)	100MT (吨)
24-hour oil yield24小时出油量	5.1 MT (吨)	8.5 MT (吨)	21.25 MT (吨)	42.5 MT (吨)	85 MT (吨)
Operating pressure操作压力	Normal and Vacuum 真空常压	Normal and Vacuum 真空常压	Normal and Vacuum 真空常压	Normal and Vacuum 真空常压	Normal and Vacuum 真空常压
Heating material加热燃料	Oil, LPG, Natural Gas, Wood, Coal, etc 油,液化石油气,天然气,木材,煤,等	Oil, LPG, Natural Gas, Wood, Coal, etc 油,液化石油气,天然气,木材,煤,等	Oil, LPG, Natural Gas, Wood, Coal, etc 油,液化石油气,天然气,木材,煤,等	Oil, LPG, Natural Gas, Wood, Coal, etc 油,液化石油气,天然气,木材,煤,等	Oil, LPG, Natural Gas, Wood, Coal, etc 油,液化石油气,天然气,木材,煤,等
Power功率	20kw (千瓦)	36kw (千瓦)	138kw (千瓦)	178kw (千瓦)	178kw (千瓦)
Model of cooling冷却方式	Water cooling 水冷	Water cooling 水冷	Water cooling 水冷	Water cooling 水冷	Water cooling 水冷





BZJ-06



BZJ-10



BZL-25



BZL-50



BZL-100



3D 布局图 3D Layout

BZJ-06废油蒸馏设备

描述:

处理量一天6吨，常压真空条件下操作。采用最新的热风加热，有效的延长主炉的寿命1-2年。  
全密封式的蒸馏主炉和蒸馏塔，油气进入冷凝塔冷却成轻质燃料油。轻质油被送入深度净化设备，包括酸洗，碱洗装置及过滤装置。处理后的合格柴油可用于发动机及发电。

BZJ-06 Waste oil distillation machine

Description:

6MT/D Capacity, which can be operated in normal pressure condition and vacuum pressure condition. Latest hot air heating system, which can increase reactor's life time for extra 1-2years.  
Totally sealed distillation reactor and distillation tower before it gets into condensers and liquefied into light fuel oil. This kind of oil will be piped into deep purifying system with acidity and alkaline cleaning devices as well pressure filtering system. Then we get qualified diesel oil that can be used in engine and generators.

Model型号	BZJ-06 Waste oil distillation plant BZJ-06废油蒸馏设备
Raw material原料	Crude oil, waste oil, fuel oil, used engine oil 原油, 废油, 燃料油, 废机油
Structural form 结构形式	Vertical 立式
24-hour handing 24小时处理量	6MT (吨)
24-hour oil yield 24小时出油量	5.1 MT (吨)
Operating pressure 操作压力	Normal and Vacuum 真空常压
Heating material 加热燃料	Oil, LPG, Natural Gas, Wood, Coal, etc 油, 液化石油气, 天然气, 木材, 煤, 等
Power 功率	20kw(千瓦)
Model of cooling 冷却方式	Water cooling 水冷

BZJ-10废油蒸馏设备

描述:

处理量一天10吨，常压真空条件下操作。采用最新的热风加热，有效的延长主炉的寿命1-2年。  
全密封式的蒸馏主炉和蒸馏塔，油气进入冷凝塔冷却成轻质燃料油。轻质油被送入深度净化设备，包括酸洗，碱洗装置及过滤装置。处理后的合格柴油可用于发动机及发电。

BZJ-10 Waste oil distillation machine

Description:

10MT/D Capacity, which can be operated in normal pressure condition and vacuum pressure condition. Latest hot air heating system, which can increase reactor's life time for extra 1-2years. Totally sealed distillation reactor and distillation tower before it gets into condensers and liquefied into light fuel oil. This kind of oil will be piped into deep purifying system with acidity and alkaline cleaning devices as well pressure filtering system. Then we get qualified diesel oil that can be used in engine and generators.



Model型号	BZJ-10Waste oil distillation plant BZJ-10废油蒸馏设备
Raw material原料	Crude oil, waste oil, fuel oil, used engine oil 原油, 废油, 燃料油, 废机油
Structural form 结构形式	Vertical 立式
24-hour handing 24小时处理量	10MT （吨）
24-hour oil yield 24小时出油量	8.5MT （吨）
Operating pressure 操作压力	Normal and Vacuum 真空常压
Heating material 加热燃料	Oil, LPG, Natural Gas,Wood,Coal,etc 油, 液化石油气, 天然气, 木材, 煤, 等
Power 功率	36kw(千瓦)
Model of cooling 冷却方式	Water cooling 水冷

BZL–25废油蒸馏设备

描述:

处理量25吨/天，常压真空条件下操作。采用最新的管式炉加热，有效的提高了生产安全性能和加热效率。  
水含量低于5%时，以废机油为例，出油率可达到90%以上。  
24小时连续式生产。  
环境保护技术装置。  
气味恶臭有毒化合物消除装置，达到排放标准。  
投资收益见效快，性价比高。

BZL–25 Waste oil distillation machine

Description:

BZL–25 Distillation machine, Capacity 25MTPD, which has introduced tubular furnace, which improves the safetyperformance of production and heating efficiency.  
High Process yield, the raw material (like used engine oil) recovery is more than 90% when the water percentage is less than 5%.  
High on–stream efficiency without corrosion, fouling, coking.  
Continuous running for 24 hours per day. Auto feeding and slag discharging.  
Environmental safeguarding operation tech and devices.  
Management of all odorous compounds to eliminate malodorous and toxic emissions.  
Income of investment return quickly and high cost performance.

Model型号	BZL-25Waste oil distillation plant BZL-25废油蒸馏设备
Raw material原料	Crude oil, waste oil, fuel oil, used engine oil 原油, 废油, 燃料油, 废机油
Structural form 结构形式	Vertical 立式
24-hour handing 24小时处理量	25MT （吨）
24-hour oil yield 24小时出油量	21.25MT （吨）
Operating pressure 操作压力	Normal and Vacuum 真空常压
Heating material 加热燃料	Oil, LPG, Natural Gas,Wood,Coal,etc 油, 液化石油气, 天然气, 木材, 煤, 等
Power 功率	138kw(千瓦)
Model of cooling 冷却方式	Water cooling 水冷

BZL–50废油蒸馏设备

描述:

处理量一天50吨，常压真空条件下操作。采用最新的管式炉加热，有效的提高了生产安全性能和加热效率。  
水含量低于5%时，以废机油为例，出油率可达到90%以上。  
24小时连续式生产。  
环境保护技术装置。  
气味恶臭有毒化合物消除装置，达到排放标准。  
投资收益见效快，性价比高。

BZL–50 Waste oil distillation machine

Description:

BZL–50 Distillation machine, Capacity 50MTPD, which has introduced tubular furnace, which improves the safety performance of production and heating efficiency.  
High Process yield, the raw material (like used engine oil) recovery is more than 90% when the water percentage is less than 5%.  
High on–stream efficiency without corrosion, fouling, coking.  
Continuous running for 24 hours per day. Auto feeding and slag discharging.  
Environmental safeguarding operation tech and devices.  
Management of all odorous compounds to eliminate malodorous and toxic emissions.  
Income of investment return quickly and high cost performance.

Model型号	BZL-50 Waste oil distillation plant BZL-50 废油蒸馏设备
Raw material原料	Crude oil, waste oil, fuel oil, used engine oil 原油, 废油, 燃料油, 废机油
Structural form 结构形式	Vertical 立式
24-hour handing 24小时处理量	50MT （吨）
24-hour oil yield 24小时出油量	42.5 MT （吨）
Operating pressure 操作压力	Normal and Vacuum 真空常压
Heating material 加热燃料	Oil, LPG, Natural Gas,Wood,Coal,etc 油, 液化石油气, 天然气, 木材, 煤, 等
Power 功率	178 kw(千瓦)
Model of cooling 冷却方式	Water cooling 水冷

BZL–100废油蒸馏设备

描述:

处理量一天100吨，常压真空条件下操作。采用最新的管式炉加热，有效的提高了生产安全性能和加热效率。  
水含量低于5%时，以废机油为例，出油率可达到90%以上。  
24小时连续式生产。  
环境保护技术装置。  
气味恶臭有毒化合物消除装置，达到排放标准。  
投资收益见效快，性价比高。

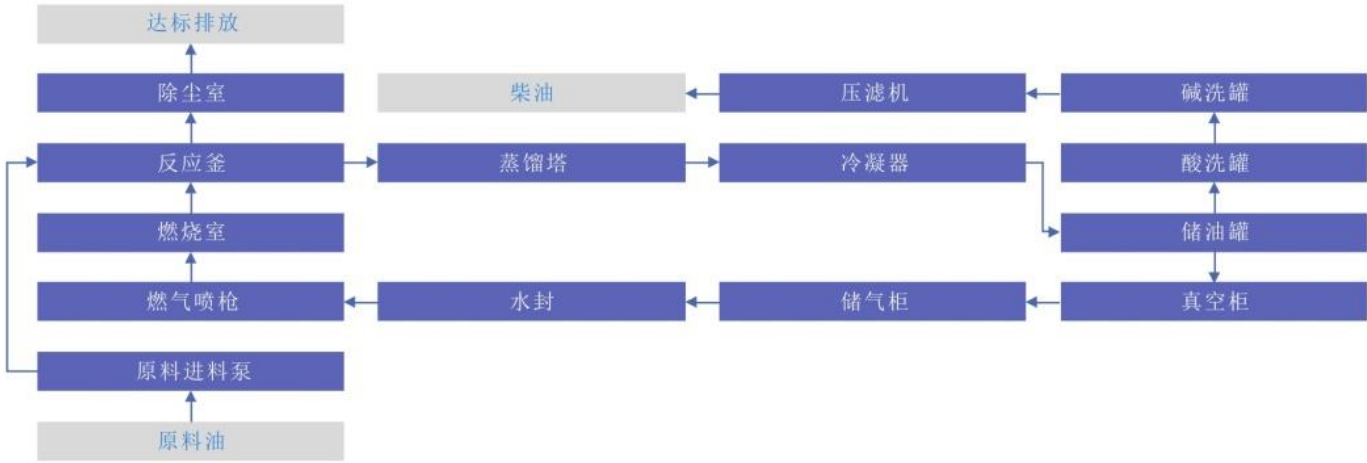


BZL-100 Waste oil distillation machine

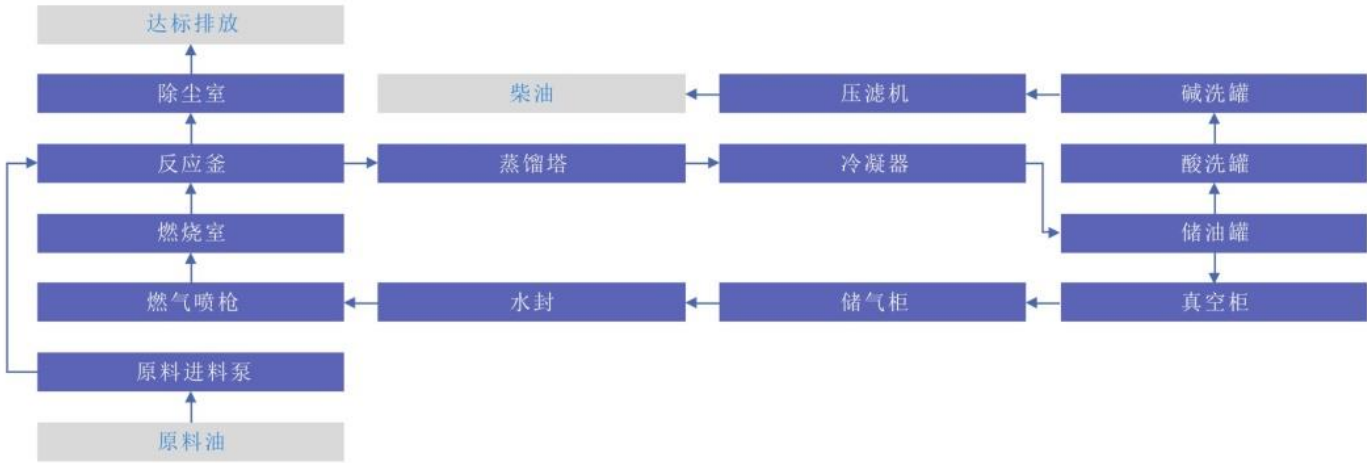
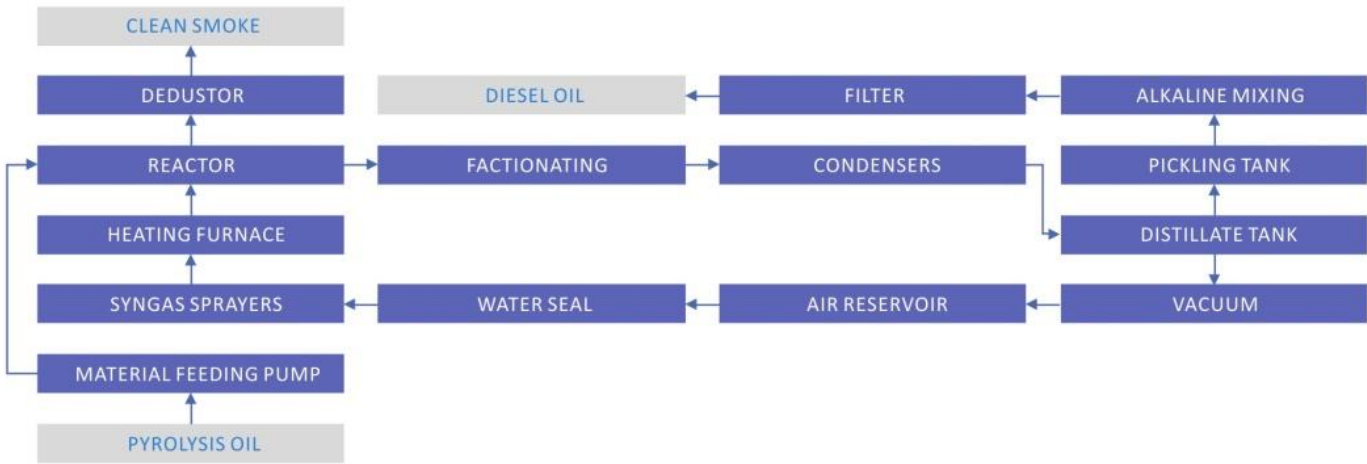
Description:

BZL-100 Distillation machine, Capacity 100MTPD, which has introduced tubular furnace, which improves the safety performance of production and heating efficiency.  
High Process yield, the raw material (like used engine oil) recovery is more than 90% when the water percentage is less than 5%.  
High on-stream efficiency without corrosion, fouling, coking.  
Continuous running for 24 hours per day. Auto feeding and slag discharging.  
Environmental safeguarding operation tech and devices.  
Management of all odorous compounds to eliminate malodorous and toxic emissions.  
Income of investment return quickly and high cost performance.

Model型号	BZL-100 Waste oil distillation plant BZL-100 废油蒸馏设备
Raw material原料	Crude oil, waste oil, fuel oil, used engine oil 原油, 废油, 燃料油, 废机油
Structural form 结构形式	Vertical 立式
24-hour handing 24小时处理量	100MT (吨)
24-hour oil yield 24小时出油量	85 MT (吨)
Operating pressure 操作压力	Normal and Vacuum 真空常压
Heating material 加热燃料	Oil, LPG, Natural Gas, Wood, Coal, etc 油, 液化石油气, 天然气, 木材, 煤, 等
Power 功率	178 kw(千瓦)
Model of cooling 冷却方式	Water cooling 水冷

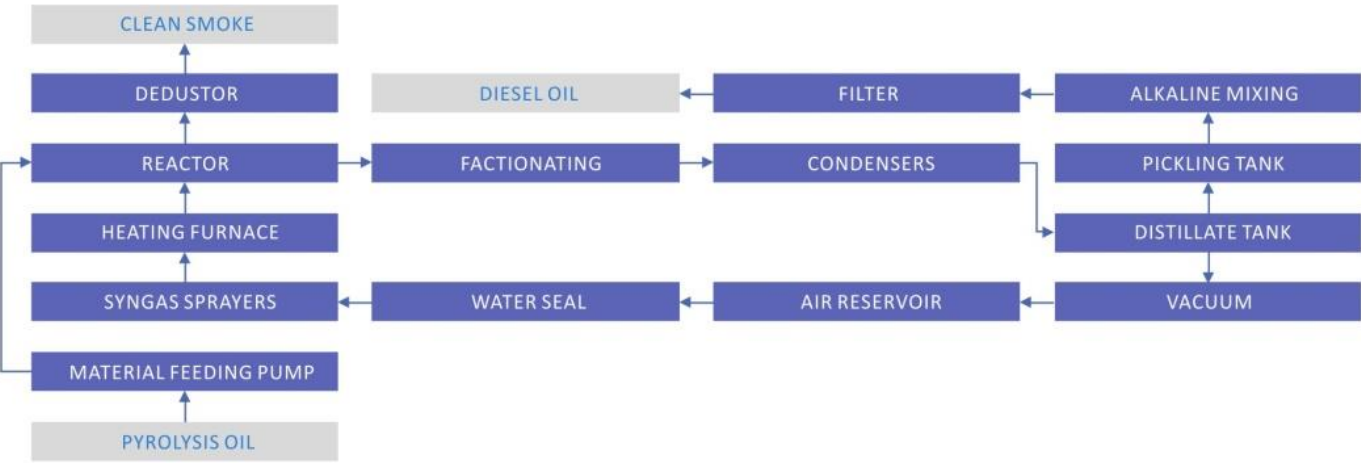


BZJ-10



工作流程图  
OPERATION FLOW CHART

BZJ-5





各个部件细节图片  
MAIN PARTS DISPLAY



De-dusting system 除尘系统      Power Cabinet 电控柜      Filter press 压滤机



Cooling tower 冷却塔      Hydroseal 水封      Acid/Alkaline washing Tank 酸洗碱洗罐      Distillation Tower 蒸馏塔



Oil tank 油罐      Oil condenser 油道冷凝器      Reactor 反应釜

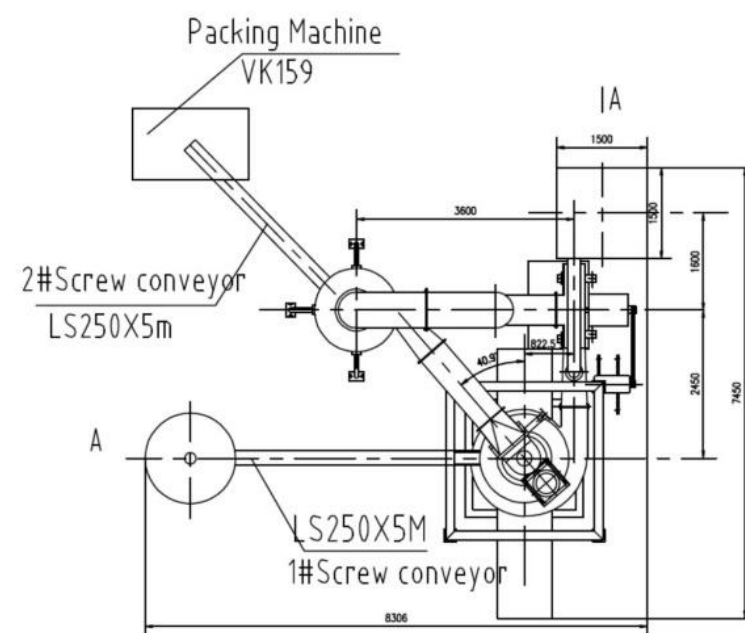
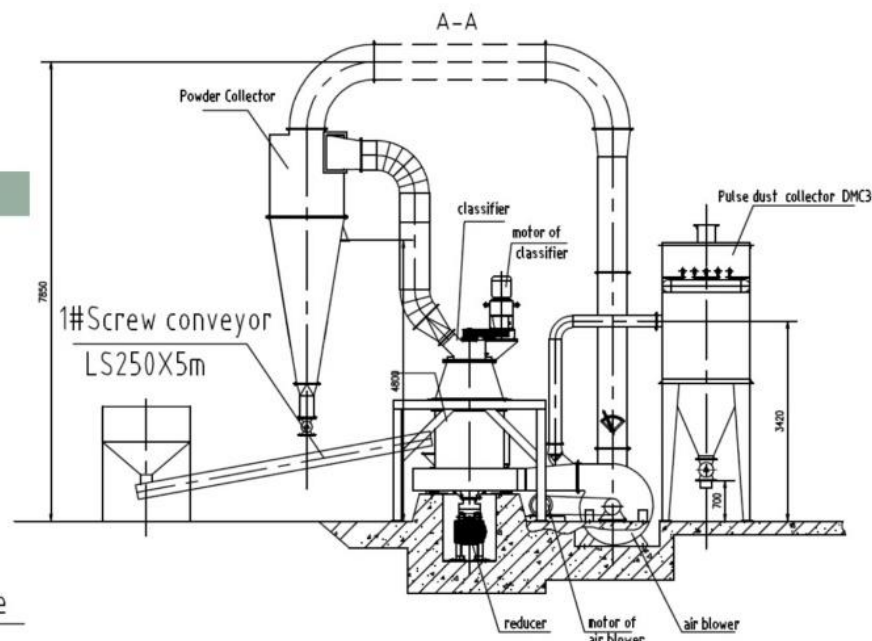
炭黑研磨  
Carbon Black Grinder



产品参数  
SPECIFICATIONS

型号 Model	磨环尺寸 (毫米) (直径X高度) RingSize (DXH)(mm)	主机转速 (转/分) Rotating Speed of Main Mill(r/min)	成品细度 (目) The final Size(mesh)	产量 (吨/小时) Capacity (KG/H)	主机功率 (功率) Power of Main Frame (KW)	风机功率 (千瓦) Power of Air Blower(kw)	分析机功率 (千瓦) Power of Classifier (KW)	外形尺寸 (毫米) 长X宽X高 Dimension (mm) (L X W X H)
BMF-10	780X150	160	325	150	18.5	15	2.2	4300X3500X5100
BMF-20	830X140	150	325	600	22	22	4	5300X4100X5200
BMF-30	950X170	130	325	1500	37	30	5.4	7100X5900X7900





## 产品优势 PRODUCT ADVANTAGES

- 1、增加高压弹簧装置，提高碾压力，与传统雷蒙磨相比同等动力条件下产量提高10-20%。
- 2、出料细度调整方便（成品从80mesh至2500mesh任调）研磨装置设计合理，运行稳定可靠。
- 3、采用重叠式多级密封，密封性能良好。
- 4、除尘效果完全达到国家排放标准磨辊、磨环采用超耐磨材料，使用寿命长，维修率低。

- 1.Add high pressure spring device to improve ground pressure , Compared with traditional Raymond mill, with same power, it can produce 10-20% more powder.
- 2.Easy to adjust final size (from 80mesh to 2500mesh).
- 3.Reasonable grinding device designation, stable operation.
- 4.Adopt eclipsed form multilevel seal, good sealing properties.
- 5.Dedusting efficiency measures meet the national standard.
- 6.Super durable material adopted in wearing parts, long serving life, low maintenance.



## 应用领域 APPLICATION AREA

BMF grinder in pyrolysis industry: BMF 系列磨粉机在轮胎塑料裂解行业的应用。

裂解生产过程中产生的粗炭黑，其尺寸大概为50-60目，该磨粉机应用于将裂解粗炭黑研磨到至少325目，以达到N级炭黑品质，其终端产品接近目前市场上广泛应用的N330，可用于基本的橡塑行业作为，补强剂，填充剂或者着色剂。可用于生产：橡胶密封件，橡胶三角带，塑料制品，以及颜料等等。

The coarse carbon got from pyrolysis system is about 50-60 mesh, this machine is aimed to process the coarse carbon into 325 mesh or more, to reach a N grade carbon quality, the final products will be close to N330, which can be used in the basic plastic and rubber industry as fortifier, filler, and colorant, such as, to produce: rubber seals, rubber belt, plastic products, pigment, etc.

BMF grinder in other industry: BMF系列磨粉机在其它行业的应用：

其广泛应用于：矿山、建材、冶金、石油、煤炭、化工、陶瓷、造纸、橡胶、耐火材料、食品、饲料、添加剂等行业中各种原料的制粉，特别适用于研磨粉碎重晶石、石灰石、铁矿石、铝矿石、锰矿石、萤石、磷矿石、白云石、膨润土、花岗岩、滑石、石英石、方解石等莫氏硬度小于9.3级，湿度在8%以下，非易燃易爆，硬脆性质物料的制粉加工。成品细度在80-2500目范围内可自由调节；并可通过添加特殊装置生产30-80目的粗粉。

This machine is suitable for producing minerals powder, which is widely used in the fields of mining, metallurgy, chemical, construction and mining industry. It can be used for grinding barite, limestone, porcelain, slag and other materials that Moh's hardness is below 9.3, humidity is in 8%, and non-flammable non-explosive minerals. The final product size can be adjusted as required in the range of 80-2500 meshes. And the special coarse powder device (30-80mesh) is also available.



终端产品  
END PRODUCTS



研磨后的炭黑  
Pyrolysis carbon after grinding

用途：作为补强剂，用来制作新轮胎或者其他橡胶产品  
Usage : It is a good fortifier that can be used for making new tyre or other rubber production

研磨后炭黑检测报告  
The test report of the pyrolysis carbon after grinding

Inspection Item检验项目	Measured Value 测定值	Test Standard 检验标准
Inspection Item检验项目	129	GB/T3780.1-2006
DBP absorption value10 <sup>5</sup> m <sup>3</sup> /kgDBP吸收值 (B法)	85	GB/T3780.2-2007
CTAB sorption ratio superficial area 103 m <sup>2</sup> /kg CTAB吸附比表面积	50	GB/T3780.5-2008
Nitrogen sorption ratio superficial area 103 m <sup>2</sup> /kg 氮吸附比表面积	54	GB/T10772-2003
Weight loss on heating(125C)% 加热减量	0.7	GB/T3780.8-2008
Ash(825C)%灰分	23.1	GB/T3780.10-2002
PH value Ph值	8.5	GB/T3780.7-2006
Impurity% 杂质	none	GB/T3780.12-2007
Volatile component %挥发分	7.6	GB/T7047-2006
Tensile Strength Mpa 拉伸强度	-11.7	GB/T3780.18-2007
Maximum elongation% 最大延伸率	-10	

生物质碳化设备  
Biomass Carbonization Plant

主要各部件展示  
MAIN PARTS DISPLAY



喷淋塔 Spray tower



破碎机 Shredder



除尘系统 De-dusting system



粉碎机 Crusher

产品参数  
SPECIFICATIONS

Model型号	BST-08	BST-10	BST-13	BST-17	BST-20	BST-24
Raw material原料	Sawdust, Coconut shell, Wood, Rice husk and other biomass material/ Waste sludge 锯末、椰壳、木材、稻壳、果壳等生物质材料/污泥					
Structure结构	Horizontal 卧式					
Capacity (kg/h)产量	300-800	500-1000	2000-3000	3000-5000	5000-8000	8000-10000
Rotary speed of furnace 主炉转速	3-9 turn/ min 3-9 转/分钟					
Power (Kw/h)功率	12	14	19.5	23	33	44
Host size (Width*Height* Length)	8086*1600*2900 mm	10600*2100*3350 mm	12600*2540*4000 mm	13100*2990*4300m m	14300*3300*4700m m	15200*3750*5100 mm



## 各型号照片 PICTURES



BST-08



BST-10



BST-13

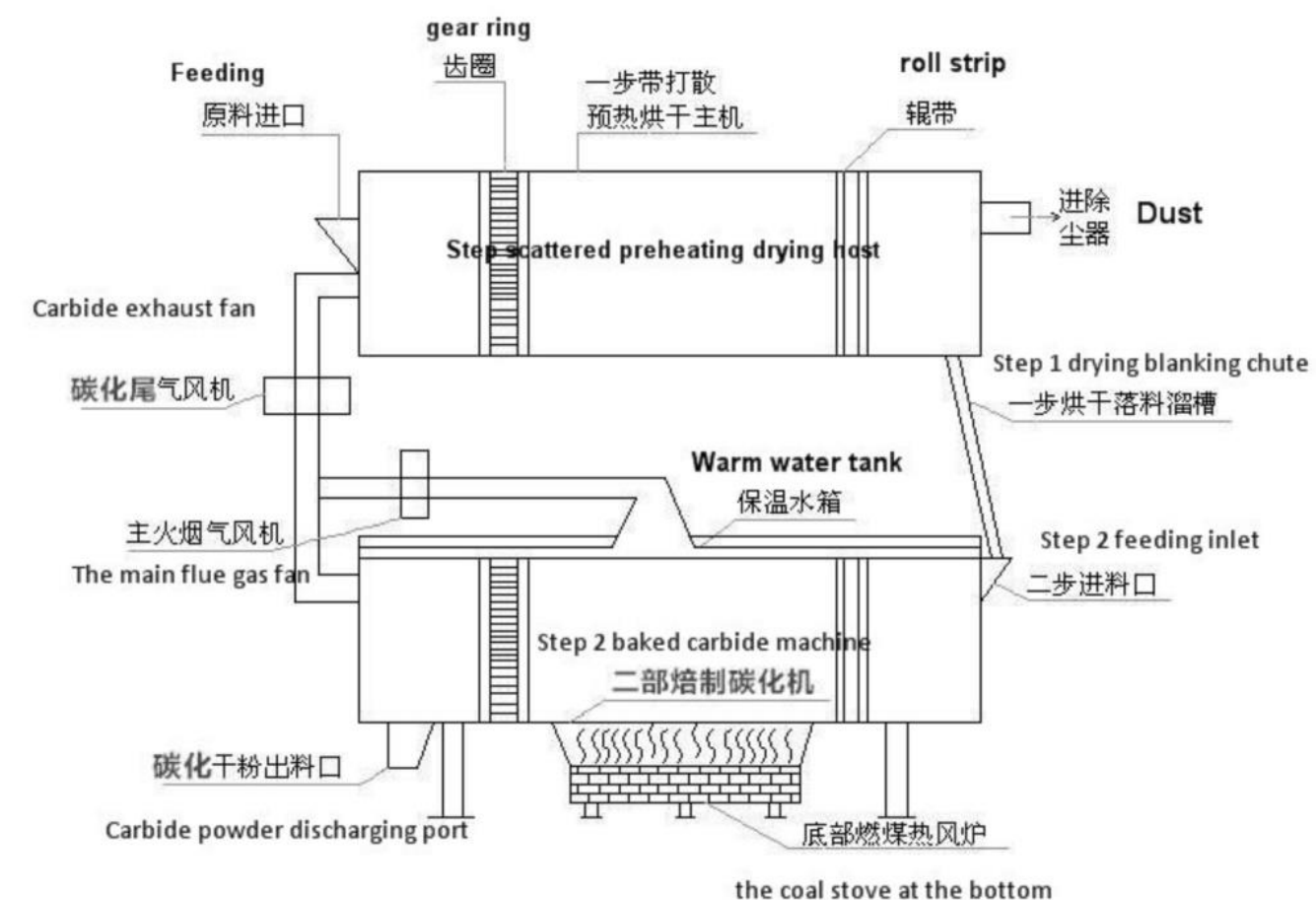


BST-17 / BST-20



BST-24

## 工作流程图 OPERATION FLOW CHART



## 安全设计 SECURITY DESIGN

- 1、根据客户投资情况可设计中央控制，实现人机分离
  - 2、可燃气体部分已设计回用燃烧，燃烧装置中含有压力表、泄压阀、焦油、木醋净化装置，以及电子点火器。
  - 3、生产中有外观可靠的机壳（也叫防护壳），机内、机体的高温没有与人有任何接触。
  - 4、电源部分有标准化的控制系统，保证安全。
  - 5、废气部分由引风机做功，通过脱硫、消烟、冷却、来实现达标排放及安全环保。
  - 6、进料、出料部分均有密封装置，保证环境整洁和生产安全。
1. Central control can be designed according to the customer's request, which can separate the operator and machine.
  2. Combustible gas was recycled to the burner, combustion device with pressure gauge, pressure relief valves and electronic ignition device.
  3. Configured with the casing (protective shell), which can prevent the body contacting the high temperature directly.
  4. Power supply section has a standardized control system to ensure safety.
  5. Professional desulfurization, smoke-remove, cooling system.
  6. Configured with sealing system, ensure the environmental cleanliness and production safety.



## 应用领域

### APPLICATION AREA

- 1.农业及林业领域 Agricultural and forestry sector  
农林废弃物，如锯末，椰壳，木头，稻壳，农村植物茎蔓和其他生物质材料。  
Agricultural and forestry waste like sawdust, coconut shell, wood, rice husk, rural plant vine and other biomass material
- 2.城市废弃物处理领域 Municipal waste treatment  
城市固体废弃物和市政污泥处理 Municipal solid waste and municipal sludge treatment.
- 3.工业造纸领域 Industrial paper-making sector  
造纸废物处理 Treatment of paper-making waste
- 4.土壤改良以及其他行业和部门 Soil improvement and other industries and sectors

## 终端产品

### END PRODUCTS

#### 用途

生活方面：被广泛应用于烧、烤、涮等饮食行业；也可以用作燃料。

农业方面：改良土壤，促进土壤团聚体形成、对土壤生物生态具有调控作用、

工业方面：可以被进一步加工成活性炭，广泛应用于冶炼、化工等行业。

#### Application

Life: widely used as fuel in the barbecue, rinse and other food field.

Agriculture: attach heavy metal, improve the quality of soil.

Industry: can be reprocessed into activated carbon, widely used in the smelting, chemical fields.



## 经典案例

### SUCCESSFUL CASE



国家：越南 时间：2012 Country: Vietnam; Time: 2012



国家：越南 时间：2012 Country: Vietnam; Time: 2012



国家：马来西亚 时间：2014

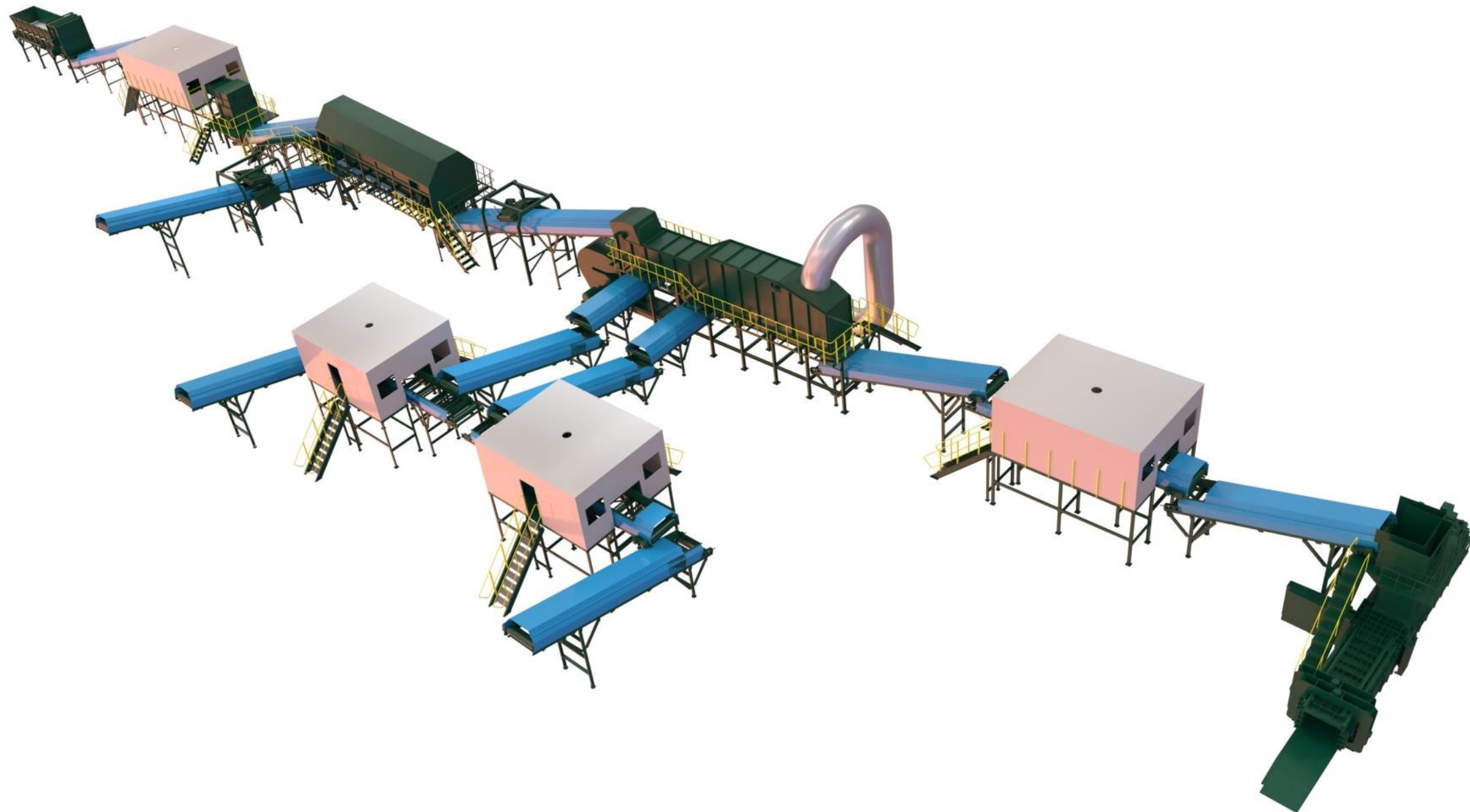
Country: Malaysia; Time: 2014



## 城市生活垃圾分选设备

Municipal solid waste sorting project/

Urban garbage sorting project





主要部件展示  
MAIN PARTS DISPLAY



板式进料机  
Plate feeder



均匀布料机  
Uniform Material Spreader



破袋机  
Bag breaker



密封皮带输送机  
Sealed belt conveyor



滚筒筛分机  
Rotating screening machine



综合风选机  
Comprehensive winnowing machine



人工分拣平台  
Manual sorting platform



比重分选机  
Gravity separator



色分选机  
Color sorting machine



液压打包机  
Hydraulic packing machine



液压金属压块机  
Hydraulic metal presser



喷淋除臭系统  
Spraying deodorization tower





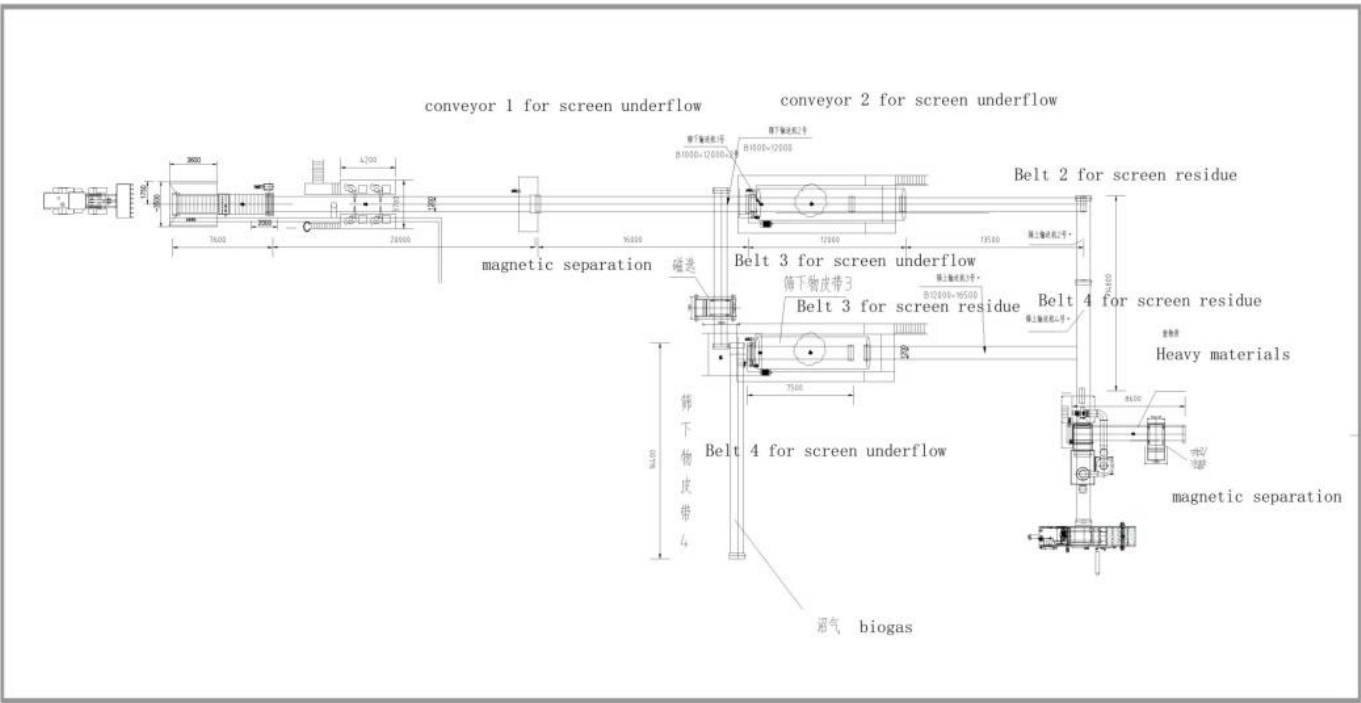


除臭塔  
Deodorization tower

磁选机  
Magnetic separator

密封除臭系统  
Sealed deodorization tower

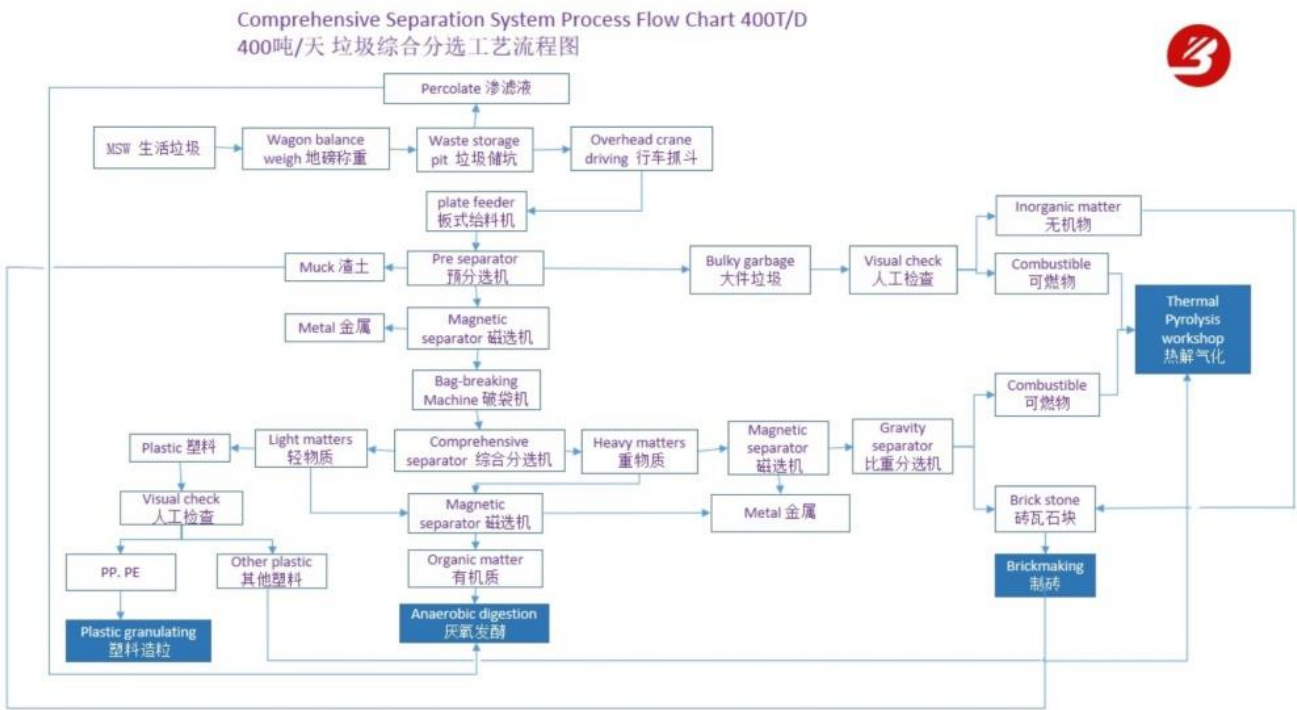
3D布局图  
LAYOUT



产品参数  
SPECIFICATIONS

型号Model	BFX-100	BFX-200	BFX-300	BFX-400
处理量Capacity	100T	200T	300T	400T
功率Power	224.7kW	263KW	279KW	294KW
占地面积area	5366m2	6112m2	6200m5	6800m2

工作流程图  
OPERATION FLOW CHART



应用领域  
APPLICATION AREA

- 1-城市生活垃圾分选设备Municipal solid waste sorting plant
- 设备本着减量处理，变废为宝的原则设计，利用多种分选手段，从生活垃圾最大限度分离出有机质，塑料，金属，砖石等物质，提高了垃圾的回收再利用。LPC控制系统，可以全程监控设备工作状态。独特的封闭式除臭系统搭配芳香酯喷淋除臭系统，有效控制了生产车间的异味。可根据不同地域和国家的垃圾成分，合理的改变设备配置，为客户打造安全，环保，经济的城市垃圾分选系统。
- This equipment is designed based on principle of the reducing the volume, turning the waste to treasure. Using a variety of selection machine, we could get organic, plastic, metal, brick, stone, etc. from the garbage with high efficiency. The LPC control system could monitor the whole working process of the line. The sealed deodorizing system as we as the unique aromatic ester spraying deodorant system, could keep the bad smell in the workshop away. We'd like to make some change with the configuration according the garbage component of different locations and countries, to make a safe environment friendly and economic garbage sorting project.
- 2-矿山垃圾分选处理系统 Mining waste sorting system
- 本设备可同样适用于矿山垃圾的清理分拣工作。封闭的传送装置和除尘装置可有效地控制垃圾处理时候的飞灰和扬尘。独特的耐磨，防腐蚀工艺，大大延长了设备的使用寿命。合理的结构布局，方便了设备的安装和转运。根据客户垃圾原料成分和尺寸，做出最佳的设计和配置。
- This equipment can also be applied to mine waste cleaning and sorting work. Sealed transmission device and dust removal device can effectively control fly ash and dust from garbage disposing .Unique wear-resisting, anti-corrosion technology, greatly extend the service life of the equipment. Reasonable structure layout, make it very convenient for installation and transshipment. According to the customer's waste material composition and size, we will make the best design and configuration.



## 终端产品 END PRODUCTS



### 塑料 Plastic

塑料  
使用热解设备把废塑料转化成燃料油  
Using the pyrolysis plant to convert the plastic into fuel oil



### 金属 Metal

Metal can be used for making other iron materials



### 砖石 Brick and stone

The separated muck, brick, stone can be used to do the bricks



### 有机物 Organic

The organic can be used for producing fertilizer

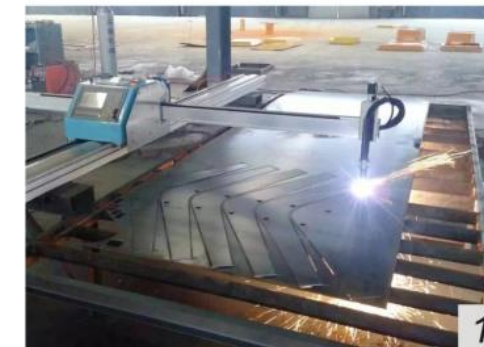


## 安全设计 SECURITY DESIGN

- 1-全自动操作，降低人为造作的失误
- 2-整个生产过程均可监控，保证生产顺利进行
- 3-独特除臭系统，保证了生产车间的环境和工人健康
- 4-封闭式生产过程，降低了垃圾的污染

- Fully automatic operation, to avoid manual operate mistake
- All the processing procedure are under monitoring, ensure the producing going smoothly
- Special odor control system, ensure the workshop has a good environment and protect the workers' health
- Sealed producing process, reduce the pollution of the waste

## 工厂生产设施 MANUFACTURE FACILITIES



1.数控切割机  
NC cutting machine



2.圈圆机  
Circular machine

3.自动电焊机  
Automatic welding machine



相关产品  
Related Products

城市生活垃圾气化发电系统  
GASIFICATION POWER GENERATION SYSTEM



BQF-500 500KW MSW Gasification Generation System BQF-500 500KW 城市垃圾气化发电系统	
Items项目	Specifications规格
Installed capacity装机容量	500KW
Total Power 总功率	261.25 KW
System Configuration 系统组成	1, Shear crusher 剪切式粉碎机 2, Gasifier (dryer) 气化炉(烘干机用) 3, Roller dryer(Has heat exchanger) 滚筒式烘干机(含热交换器) 4, gasification system 气化系统 5, 500kw generator 500kw发电机
Land required 占地面积	1, Raw material pretreatment 原料预处理 39*3=117m² 2, Center gas supply system 集中供气系统 12*3=36m² 3, Gas storage tank储气包 10*5*4=200m³ 4, Gas Turbine Generator 燃气发电机 6.4*1.6=10.24m²
Raw material required 原料需求量	4,320,000.00 Ton/Annual 4320000吨/年

双燃料发电机组  
DUAL FUEL GENERATOR



BFD-Duel Fuel Generator 双燃料发动机	
Generator type 发动机型式	6 or 8 Cylinders, LineEngine, Pressure boost , Inter cooling, Pilot diesel, Intermediate speed 6 缸或8 缸,直列,增压,中冷,柴油引燃,中速
Cylinder diameter 缸径	300/320mm
Length of stroke 冲程	380mm
Power 功率	1.0~2.5 MW 纯柴油模式 : 1.0~2.5MW 1.0~2.5 MW for Diesel model ; 1.0~2.5MW for duel fuel model
Gas supply pressure 燃气供应压力	建议不小于 2 bar. Suggest not less than 2 bar
Substitution rate 替代率	70~80% 燃气, 20~30% 柴油 ( 取决于燃气压力) 70~80% Fuel gas, 20~30% Diesel (Depending on the gas pressure)
Gas supply way 燃气供应方式	各缸直喷式 Each cylinder Direct injection
Emission 排放	氮氧化物减少65% Nitrogen oxides reduce 65%



废轮胎破碎机/废轮胎胶粉生产线  
WASTE TYRE SHREDDER/TYRE POWDER PRODUCING LINE



Tyre Wire Drawing Machine 拉钢丝机		
Model型号	BPS-LD-1200 Single hook(单钩)	BPS-LS1200 Duel Hook(双钩)
Capacity处理量	30-60 pcs/hour (条/小时)	60-120 (条/小时)
Tyre size 轮胎尺寸	≅ Ø 1200mm	≤Ø 1200mm
Motor power电机功率	7.5kw (千瓦)	18.5kw(千瓦)
Working pressure工作压力	15ton (吨)	/
Cylinder moving distance 油缸行程	1300mm (毫米)	/
Dimensions外观尺寸	3150*750*1400mm(毫米)	2300*2000*1530mm(毫米)
Weight 重量	1.6ton(吨)	6.5ton(吨)

Tyre Shredder 破碎机		
Model 型号	BPS-900	BPS-1200
Capacity处理量	1-3ton/hour (吨/小时)	2.5-5ton/hour (吨/小时)
Feed size 进料规格	≅ Ø 900mm(毫米)	≅ Ø 1200mm(毫米)
Output size 出料规格	50*50mm (毫米)	50*50mm (毫米)
Motor power电机功率	(20*2+1.5+0.5)kw (千瓦)	(45*2+3)kw (千瓦)
Spindle speed 主轴转速	16turn/min (转/分钟)	12turn/min (转/分钟)
Dimensions外观尺寸	2000*2500*2800mm(毫米)	4000*3400*3700mm(毫米)
Weight 重量	6.8ton(吨)	18ton(吨)

废塑料清洗造粒设备  
WASTE PLASTIC WASHING PELLETING LINE

Name名称	Item项目	BZL-100	BZL-120	BZL-150
Main machine 主机	Major axis长径	Φ100*2200mm(毫米)	Φ120*2600mm(毫米)	Φ150*3200mm(毫米)
	Capacity产能	100-150kg/hour公斤/时	130-200kg/hour公斤/时	220-350kg/hour公斤/时
	Power功率	37kw(千瓦)	37kw(千瓦)	55kw(千瓦)
	Die-head模头	200 Electric single	250 Electric single	300 Electric single
Cooling water baths冷却水槽		3000*500*300mm	3000*500*300mm	3000*500*300mm
Grain-sized dicing切粒	Power 功率	Electromagnetism	Electromagnetism	Electromagnetism
Material collecting 收料		250KG wind barrel 0.75kw medium-pressure 250KG风桶 0.75千瓦 中压	250KG wind barrel 0.75kw medium-pressure 250KG风桶0.75千瓦 中压	500KG wind barrel 1.5kw medium-pressure 500KG风桶 1.5千瓦 中压



称重包装设备  
WEIGHING AND PACKING MACHINE

DCS-A25-F3 Weighing and Packing Machine DCS-A25-F3称重包装机	
Items 项目	Specification 规格
Weighing Range称重范围	10-50 kg/bag(公斤/包)
Weighing Capacity称重能力	2~4 bag/min(包/分钟)
Weighing Error称重误差	±25g(克)
Sewing Thickness缝纫厚度	8mm(毫米)
Sewing Speed缝纫速度	1700rpm ~ 1800rpm 转/分钟
Sewing stitch distance缝包针距	6.5 mm ~ 11mm(毫米)
Needle Model机针型号	80800x250 #
Gas consumption耗气量	0.4Nm3/min(立方米/分钟)
Max. discharge pressure最大排气压力	0.8Mpa(兆帕)
Control控制方法	PLC Microprocessor control 微机控制



百特设备的足迹  
Beston Plant's Footprint



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