

01 PET瓶破碎清洗回收生产线 PET bottle recycling line

PET瓶片清洗分为四类PET bottle cleaning is divided into four categories

冷水杂色片清洗
Cold water color chip cleaning

主要用于PET打包带
Mainly used for
PET packaging tape

热水蓝白片清洗
Hot water blue and white sheet cleaning

主要用于短纤拉丝
Mainly used for
short fiber drawing

热水3A片清洗
Hot water 3A sheet cleaning

主要用于长纤拉丝
Mainly used for
long fiber drawing

热水5A食品级清洗
Hot water 5A food grade cleaning

主要用于吹瓶，瓶到瓶
Mainly used for blowing
bottles, bottle to bottle

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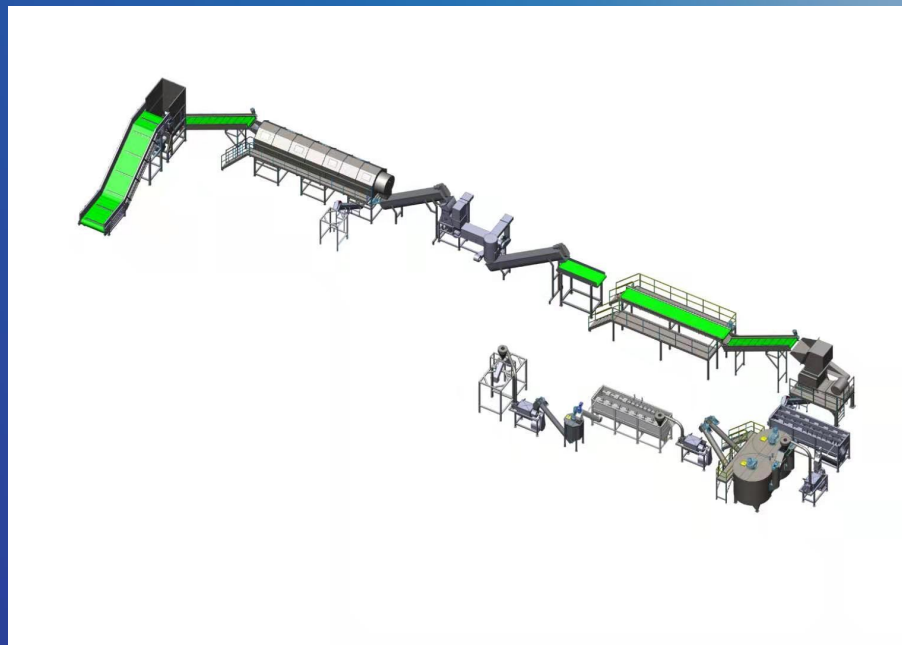
PET瓶破碎清洗回收生产线 PET bottle recycling line



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典型PET瓶片破碎清洗生产线PET bottle crushing and cleaning production line



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PET瓶破碎清洗回收生产线 PET bottle recycling line

型号Model:PET 1500KG 瓶破碎清洗回收生产线

PET Bottle Crushing,Washing and Recycling
Production Line

总功率 Total power:580KW

产量Output:1000-1500KG/H, 清洗后含水量
≤3%, moisture content after washing ≤3%,



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设备需要达到食品级，增加三个热洗蒸锅。采用电磁加热和热水回收系统，回水池增加板链输送和水泵，节能、节水。设备自动化程度高，减少人工。

Equipment needs to meet food grade, add three hot washing steamers .Adopt electromagnetic heating and hot water recovery system, add plate chain conveyor and water pump to the return water tank,achieving energy and water consumption. The equipment has a high degree of automation and reduces labor.

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滚筒筛 Rotary screen



电机功率11kw变频控制，滚筒有效工作长度6000mm，旋转直径1600mm，筛网孔径50mm，筛网厚度3mm，内部叶片厚度5mm，与物料接触部分材质304不锈钢，用途；用于初步分离物料杂质。

Motor power 11kw frequency conversion control, The effective working length of the drum is 6000mm, Rotating diameter 1600mm, The mesh aperture is 50mm, The screen thickness is 3mm, and the internal blade thickness is 5mm, The material in contact with the material is 304 stainless steel, Purpose; Used for preliminary separation of material impurities.

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脱标装置 Label separating device



电机功率37kw，主轴有效工作长度6000mm，旋转直径830mm，吸标风机4kw*2台，刮标电机功率1.5kw，刀片材质YT5合金刀头，动刀与定刀可拆卸更换。脱标率 $\geq 95\%$ 用途；将PET瓶身上面的标签纸去除分离。

Motor power 37kw, The effective working length of the spindle is 6000mm, Rotating diameter 830mm,

Two 4kw suction fans, Scratching motor power 1.5kw, The blade material is YT5 alloy blade head, and the moving and fixed blades can be disassembled and replaced. Deviation rate $\geq 95\%$, Purpose; Remove and separate the label paper on the PET bottle body.

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PET瓶破碎清洗回收生产线 PET bottle recycling line



人工分拣平台 Manual sorting platform

电机功率3kw变频控制，带有效工作长度6000mm，宽1000mm，皮带材质PVC，厚度4mm，用途；用于缓慢输送物料人工分拣。

Motor power 3kw frequency conversion control, The effective working length of the belt is 6000mm, 1000mm wide, Belt material PVC, thickness 4mm, Purpose; Used for manual sorting of slowly conveying materials.

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有色金属分选机 Nonferrous metal sorting machine

通过涡电流把有色金属分选出来。

Sort non-ferrous metals out through eddy current.

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PET瓶破碎清洗回收生产线 PET bottle recycling line



帶水破碎系統 With water crushing system

可帶水破碎，進水管徑50mm，

用途；破碎物料，破碎好的物料尺寸10-18mm。

Can be broken with water, inlet pipe diameter 50mm,

Purpose; Crushed materials, the size of the crushed materials is 10-18mm

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PET瓶破碎清洗回收生产线 PET bottle recycling line

清洗物料杂质分离系统 Clean material impurity separation system



长6000mm宽1500mm高2200mm，顶部拨料滚轮数量4个，电机功率2.2kwx2（变频控制）底部推料螺旋电机功率5.5kw，旋转直径380mm，螺旋叶片厚度5mm，漂洗池箱体壁厚3mm，与水和物料接触部分材质304不锈钢。

6000mm in length, 1500mm in width, and 2200mm in height, There are 4 top feeding rollers, Motor power 2.2kwx2 (variable frequency control)

The power of the bottom pushing screw motor is 5.5kw, Rotating diameter 380mm, Spiral blade thickness 5mm, The wall thickness of the rinsing tank is 3mm, The material in contact with water and materials is 304 stainless steel.

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脱水机 Dehydrator

电机功率37kw，主轴有效工作长度2500mm，旋转直径600mm，主轴材质碳钢，主轴做动平衡镀合金处理，筛网孔径2.5mm，材质304不锈钢，同事机箱体材质碳钢，转速1700转/min，轴承采用；NSK日本品牌，用途；去除物料表面水分

Motor power 37kw,The effective working length of the spindle is 2500mm,Rotating diameter 600mm,The spindle material is carbon steel,The spindle undergoes, dynamic balancing and alloy plating treatment,The mesh aperture is 2.5mm and the material is 304 stainless steel,The material of the colleague's chassis is carbon steel,Speed 1700 revolutions per minute,Bearings are used; NSK Japanese brand,Purpose; Remove surface moisture from materials



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热风干燥机 Hot air drying machine

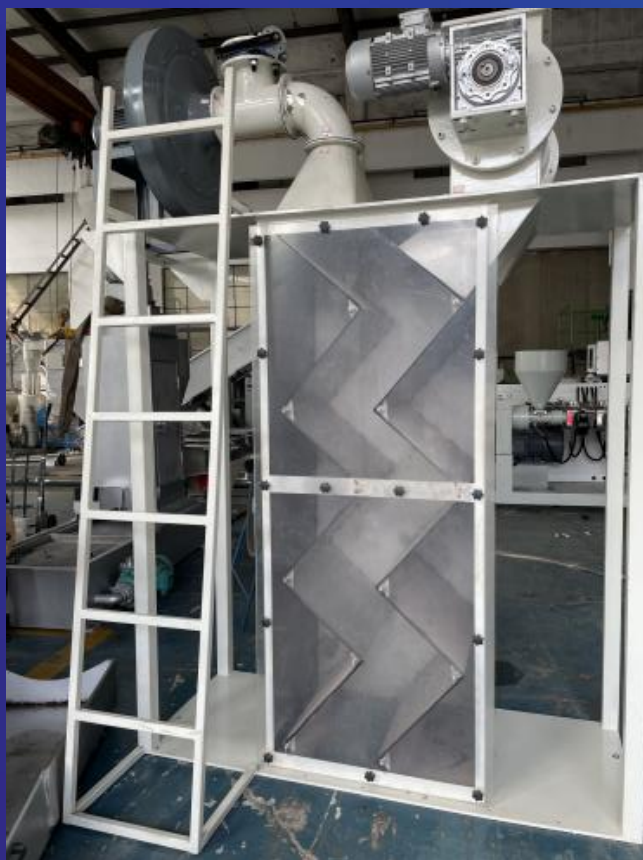
送料风机11kw，加热功率36kw，输送管道直径219mm，材质304不锈钢，有效工作长度20米，用途；采用热风对物料进行干燥，干燥后的物料含水率 $\leq 1\%$ 。

Feeding fan 11kw, Heating power 36kw, The diameter of the conveying pipeline is 219mm, Material: 304 stainless steel, Effective working length of 20 meters, Purpose; Use hot air to dry the material, and the moisture content of the dried material is $\leq 1\%$.



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Z字型标签分离机Z-shaped label separator

用途；分离去除物料中的标签纸与粉尘。

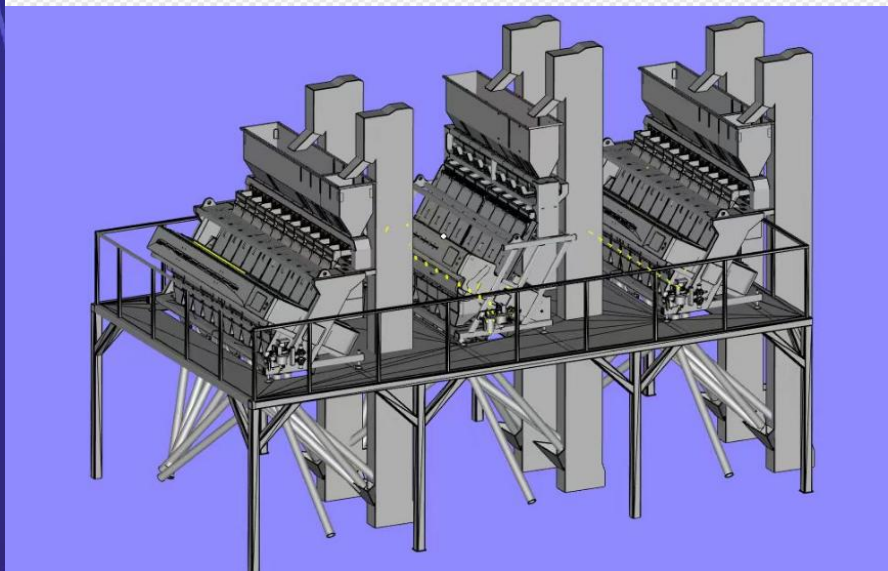
Purpose; Separate and remove label paper and dust from the material.

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材质分选、色选、老化选

Material sorting、color
sorting、aging selection



01 PET瓶破碎清洗回收生产线 PET bottle recycling line



物料收集系统
Material collection system



02

FDA瓶壶破碎清洗回收生产线 FDA bottle、pot recycling line

型号:FDA 1000KG PP/PE瓶破碎清洗回收生产线, 总功率:610KW.

Model:FDA 1000KG PP/PE Bottle Crushing,Washing and Recycling Production Line Total power:610KW.



滁州金纬机械设备有限公司
CHUZHOU JWELL MACHINERY CO.,LTD.

02

FDA瓶壶破碎清洗回收生产线 FDA bottle、pot recycling line

清洗后含水量 $\leq 3\%$ ，设备需要达到食品级，增加两个热洗蒸锅和色选机。采用电磁加热和热水回收系统，回水池增加板链输送和水泵，节能、节水。设备自动化程度高，减少人工。

moisture content after washing $\leq 3\%$, equipment needs to meet food grade, add two hot washing steamers and color sorter. Adopt electromagnetic heating and hot water recovery system, add plate chain conveyor and water pump to the return water tank, achieving energy and water consumption. The equipment has a high degree of automation and reduces labor.

02 FDA瓶壶破碎清洗回收生产线

FDA bottle、pot recycling line

物料经过输送到破碎，再经过两次漂洗和三次热洗。物料经过脱水后含水率达到3%以内。再经过色选机，达到客户使用要求。

The material is transported to crushing, and then undergoes two rinses and three hot washes. After dehydration, the moisture content of the material reaches within 3%. After passing through the color sorting machine, it meets the customer's usage requirements.

03

硬杂料破碎清洗回收生产线

Hard miscellaneous materials recycling line

硬杂料Hard
miscellaneous
materials

01

PP (水果筐, 管材, 汽车内饰等) fruit basket, pipe, car interior, etc.)

02

PE (牛奶瓶, 大小白, 管材, 托盘等) PE (milk bottle, size white, pipe, tray, etc.)

03

ABS HIPS (汽车保险杠、白色家电等) ABS HIPS (Automotive Bumpers, White Goods, etc.)

03 硬杂料破碎清洗回收生产线 Hard miscellaneous materials recycling line



03 硬杂料破碎清洗回收生产线

Hard miscellaneous materials recycling line

1、软质塑料，主要分PE薄膜和PP编织袋，吨包袋，薄膜Soft plastic, mainly divided into PE film and PP woven bags, ton bags, film

破碎-摩擦清洗-漂洗-摩擦清洗-挤干-定量喂料双阶造粒Crushing friction cleaning rinsing friction cleaning squeezing drying quantitative feeding two-stage granulation

第一种采用挤干机的，对于比较白的物料就不建议采用挤干机，因为物料在挤干去除水分的过程中塑化率会达到70%，物料多塑化了一次，会导致最终颗粒品质下降，颜色变深，一般建议客户采用第二种方案，第一种方案的优点，设备运行时噪音小。The first type of material that uses an extrusion dryer is not recommended for relatively white materials, as the plasticization rate of the material can reach 70% during the process of squeezing and removing moisture. If the material is plasticized again, it will lead to a decrease in the final particle quality and a darker color, It is generally recommended that customers adopt the second option, which has the advantage of low noise during equipment operation.

03 硬杂料破碎清洗回收生产线 Hard miscellaneous materials recycling line

2、破碎-摩擦清洗-漂洗-摩擦清洗-脱水-干燥-密实仓双阶造粒（三机一体）Crushing Friction Cleaning Rinsing Friction Cleaning Dehydration Drying Dense Chamber Double Stage Granulation

此种方案清洗过程基本都一样，主要是脱水环节不一样，采用的是高速脱水甩干，脱水后的物料含水率10-13%左右，所以后道还需要采用热风干燥，根据产量的不同热风干燥的功率也不同，清洗干燥后的物料是蓬松状态的，所以造粒就需要采用密实仓造粒，密实仓可以将物料切割成碎末强制喂入主机螺杆，提高产量。The cleaning process of the solution is basically the same, mainly the dehydration stage is different. High speed dehydration and spin drying are used, and the moisture content of the dehydrated material is about 10-13%. Therefore, hot air drying is also required in the later stage. The power of hot air drying varies depending on the production volume. The cleaned and dried material is in a fluffy state, so granulation needs to be carried out using a compact bin. The compact bin can cut the material into small pieces and force them into the main machine screw to increase production

清洗线选型须知 Selection of cleaning line

1. 须知客户处理什么材质物料？物料的状态？含杂量？ What materials should customers handle? What is the status of the material? What is the impurity content?
2. 清洗之后物料的用途？是否需要分选材质和颜色？ What is the purpose of the material after cleaning? Do you need to sort materials and colors?
3. 要求设备的产能？ What is the required equipment capacity?