



TURBO SCREENER

气旋分级机



研发
R&D



生产
Production

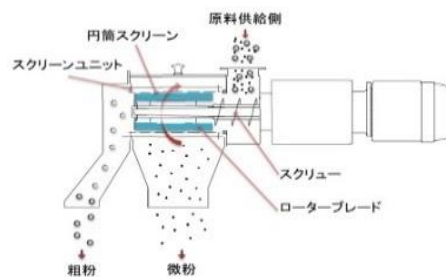
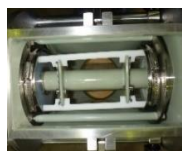


销售
Sales



售后
After sales



TURBO-SCREENER

设备名：气旋分级机

用途：原材料分级和异物去除

Equipment name: Turbo Screener

Facility Function : For raw material classification and foreign material removal

筛分原理

树脂材料的圆筒状筛网内部有高速旋转桨叶使物料均匀分散。

筛网细微连续振动，避免堵网现象。

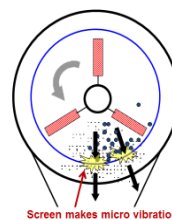
轻比重的物料受高速旋转桨叶的离心力容易筛分。

Sieving principle

The cylindrical screen of resin material has high speed rotating paddles inside to disperse the material evenly.

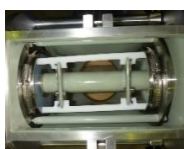
The screen is finely and continuously vibrated to avoid blocking.

Light specific gravity materials are easily screened by the centrifugal force of the high-speed rotating paddles.

**High Precision Classification Rates**

Micro vibrations of the screen occur by the force of the product hitting the screen

Micro vibrations of the screen prevents screen clogging and generates a high rate of classification

设备结构**Equipment structure**

筛网组件 Screen unit

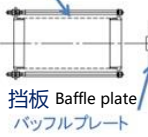
スクリーンユニット

旋翼叶片 Rotor blade

ローターブレード

小型機・中型機は、小型和中型机可以在这里拆除

こも取り外せます。 Small and medium machines can also be removed here.



挡板 Baffle plate

バッフルプレート



螺杆 Screw

スクリーン



微粉ケーシング

微粉外壳



供給ロケーシング

进料口外壳

粗粉ケーシング

粗粉外壳 Coarse casing

出色的保养性！

几乎不使用工具就能

简单分解冲洗！

Outstanding maintainability!
Easy disassembly and cleaning
without tools!**【应用领域】**

化学品：锂电材料 化工原料 金属粉末 铁甲酸酯 陶瓷 矿物 树脂 塑料添加剂 粉体涂料 有机颜料

食品：甜味料 调味料 脱脂奶粉 香辛料 淀粉 茶 健康食品 食品添加剂 可可粉 食用盐 乳糖 玉米淀粉

医药品：处方药 中草药 生药 制剂添加物 造粒品

化妆品：基础化妆品 氧化钛 氮化硼 眼线笔原料

【Application】

Chemicals: Lithium material Chemical material Metal powder Ferric acid ester Ceramic Mineral Resin Plastic additive Powder coating Organic pigment

Food: Sweetener Seasoning Skimmed milk powder Spice Starch Tea Health food Food additives Cocoa powder Table salt Lactose Corn starch

Pharmaceuticals: Prescription drugs Herbal medicines Biopharmaceuticals Formulation additives Granulation products

Cosmetics: Basic cosmetics Titanium oxide Boron nitride Eyebrow liner raw materials

设备类型 Equipment type



TS100×125



TS125×200



TS250×200



TS350×300



TS500×400

网直径: $\phi 100\text{mm}$ $\phi 125\text{mm}$ $\phi 250\text{mm}$ $\phi 350\text{mm}$ $\phi 500\text{mm}$

Screening net diameter

型 号: TS100×125 TS125×200 TS250×200 TS250×300 TS250×400 TS350×200 TS350×300 TS500×400

Model

| 型式 Model | TS100×125 | TS125×200 | TS250×200 | TS350×200 | TS350×300 | TS500×400 |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 筛网尺寸 Screen dimensions | $\phi 100 \times 125\text{mm}$ | $\phi 125 \times 200\text{mm}$ | $\phi 250 \times 215\text{mm}$ | $\phi 350 \times 215\text{mm}$ | $\phi 350 \times 300\text{mm}$ | $\phi 500 \times 400\text{mm}$ |
| 电动机 Electric motor | 0.2 ~ 0.4kW | 0.75kW | 0.75kW | 2.2kW | 2.2kW | 3.7kW |
| 电机转速 Number of revolutions | 350 ~ 2,000r/min | 300 ~ 1,800r/min | 150 ~ 1,000r/min | 125 ~ 800r/min | 125 ~ 800r/min | 100 ~ 600r/min |
| 设备尺寸 Equipment dimensions | W233×L723×H280mm | W295×L980×H440mm | W470×L1,070×H670mm | W620×L1,285×H830mm | W680×L1,254×H910mm | W780×L1,440×H1,220mm |
| 设备重量 Weight | 45kg | 70kg | 200kg | 280kg | 350kg | 450kg |

设备特点 Equipment features

困扰时的救世主!

含有油性成分的物料、高附着性的物料

用一般的振动筛无法筛分...

严重出现堵网现象...

比重轻的物料在网面上漂浮,无法筛分...

气流分级机内易团聚物料,筛分不出来...

带静电的物料,容易附着网面...



A savior in times of trouble!

Materials containing oily components and materials with high adhesion.

It is impossible to screen with ordinary vibrating screen...

The mesh is badly clogged...

Materials with light specific gravity float on the mesh surface and cannot be screened...

Material easily agglomerates in the airflow classifier and cannot be sieved...

Materials with static electricity are easy to attach to the mesh surface...



二段重叠使用同时消除粗粉和细粉!

Two stage overlapping use eliminates both coarse powder and fine powder.

特长

- ◆ 振动筛、空气分级机等不能筛分的物料也可以短时间大量处理
- ◆ 连续性高精度分级,相比振动筛5倍以上的处理能力
- ◆ 团聚状物料也可分级,利用高速旋转桨叶来解聚高频振动筛分
- ◆ 解聚筛分可以大大增高回收率,细微目数的筛网也不会产生堵网
- ◆ 无需风机、旋风、布袋等附带设备
- ◆ 占地面积小、体积小、噪音小、振动小、可用在实验室或研究室
- ◆ 可筛分带静电、带油脂性、附着性物料
- ◆ 高磨损性无机物料领域也有实际业绩

Speciality

- ◆ Materials that cannot be screened, such as vibrating screen and air classifier, can also be processed in a large amount in a short time.
- ◆ Continuous high precision grading, more than 5 times the processing capacity of vibrating screen.
- ◆ Agglomerated materials can also be graded. High speed rotating blades are used to disintegrate high-frequency vibrating screening.
- ◆ Disintegration screening can greatly increase the recovery rate, and the fine mesh screen will not block the screen.
- ◆ No fan, cyclone, bag filter and other ancillary equipment required.
- ◆ Small footprint, small volume, low noise, low vibration, and can be used in laboratory or research room.
- ◆ Screening of electrostatic, greasy and adhesive materials.
- ◆ Practical achievements in the field of highly abrasive inorganic materials.

设备优势 Advantage of equipment

可去除振动筛无法去除的异物!

对普通异物、毛发、纤维状异物的筛分功能强大!

It can remove foreign matters that cannot be removed by the vibrating screen!

It has powerful screening function for common foreign bodies, hair and fibrous foreign bodies!

异物去除!

Foreign material removal!

专为工作环境而设计!

可连续运行, 噪音低、振动低!

Designed for the working environment!

Continuous operation, low noise and vibration!

转动部分仅为旋转电机部!

The rotating part is only the rotating motor part!

安静无振动运行
非常适合实验室或
研究室使用!

Quiet and vibration free operation.

Ideal for Laboratories or Research Institutes use!

新开发技术 Newly developed technologies

超声波振动技术

Ultrasonic vibration technology



气旋分级机U系列

Cyclone classifier U series

运用不锈钢网的新产品

医药·食品行业多使用不锈钢网

◆ New products using stainless steel mesh.

◆ Stainless steel mesh is widely used in medicine and food industry.

与瑞士的公司共同开发

◆ 利用以超声波技术闻名的TELSONIC公司的SONOSCREEN CYCLON发生器。

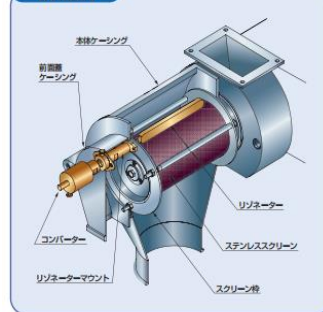
以8种类强弱振动模式,能设定最适合分级条件。

◆ Joint development with a Swiss company.

◆ Using TELSONIC'S SONOSCREEN CYCLON generator. With 8 kinds of strong and weak vibration modes, the most suitable grading conditions can be set.



构造图

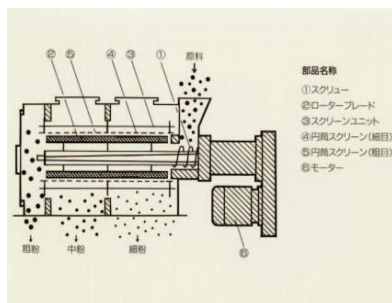


| 原料 | 网目开距 | 筛子透过效率 | 处理能力 |
|-----------------------|-----------------------|-------------------------------|---------------------|
| Raw material | Mesh opening distance | Sieve transmission efficiency | Processing capacity |
| 碳酸钙 Calcium carbonate | 77μm | 98.80% | 100kg/hr |
| 玉米淀粉 Corn starch | 99μm | 99.30% | 300kg/hr |
| 乳糖 Lactose | 144μm | 96.20% | 100kg/hr |

同时筛分粗粉和细粉的技术

Simultaneous coarse and fine powder removal technology

特殊用法机器
Special use machine



以1台粗粉·中粉·细粉的分级!

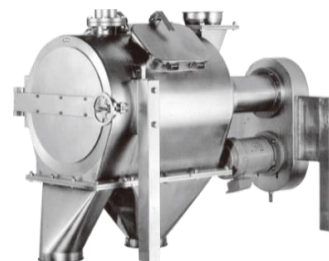
去除粗颗粒和细颗粒以改善负极材料的性能。

比上下2台配置的设备更加有效利用空间!

Take 1 coarse powder - medium powder - fine powder classification!

Removal of coarse and fine particles to improve anode material performance.

Effective in case there is no space for 2 classifiers!



TS250×400-II BS

异物混入防止対策 Measures to prevent contamination

② 主机内原料接粉部 特氟龙涂层

② Raw material powder receiving section in the host teflon coating.



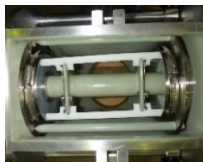
① 料斗内原料接粉部 特氟龙涂层

① Raw material powder receiving section in hopper teflon

防金属异物混入!!
Anti-metal foreign objects mixed!

③ 高速旋转桨叶部 聚氨酯喷涂保护

③ High speed rotating blade Polyurethane spraying protection.



④ 塑料材质桨叶 ④ Plastic blade



⑤ 原料出口为特氟龙涂层

⑤ Raw material export is Teflon coating.



⑥ 聚酯合成树脂筛网

⑥ Polyester synthetic resin screen.



也可提供全树脂外壳的设备
Equipment with full resin casing can also be provided.

客户交付业绩 Delivery record

| 原料 Raw materials | 机器类型 Model used | 能力 Capabilities | 筛网开孔 Sieve net opening | 产量比率(%) Yield ratio |
|------------------------------|--------------------|--------------------|---------------------------|------------------------|
| NCM三元 Ternary | TS125×200 | 170kg/h | 45μm | 99.9 |
| NCA Nickel Cobalt Aluminum | TS125×200 | 244kg/h | 45μm | 99.6 |
| 石墨 Carbon | TS125×200 | 180kg/h | 45μm | 96.0 |
| 氧化铝粉 Alumina powder | TS250×200 | 650kg/h | 105μm | 97.0 |
| 球状硅 Spherical silicon | TS350×200 | 200kg/h | 105μm | 98.5 |
| 球状硅 Spherical silicon | TS250×200 | 3kg/h | 12μm | 82.0 |
| 烧成高岭土 Calcined kaolin | TS350×300 | 800kg/h | 105μm | 99.9 |
| 银粉 Silver powder | TS125×200 | 120kg/h | 75μm | 98.0 |
| 氢氧化铝 Aluminum hydroxide | TS500×400 | 4,000kg/h | 105μm | 99.9 |
| 复印机碳粉 Toner | TS350×300 | 400kg/h | 73μm | 99.0 |
| 复印机碳粉 Toner | TS125×200 | 40kg/h | 45μm | 95.0 |
| 彩色复印机碳粉 Color toner | TS250×200 | 90kg/h | 38μm | 99.0 |
| 铁酸盐喷雾干燥品 Ferrite spray dried | TS250×400 | 100kg/h | 75μm | 93.6 |
| 氧化镁 Magnesium oxide | TS250×200 | 80kg/h | 54μm | 97.8 |
| 钨粉末 Tungsten powder | TS250×200 | 200kg/h | 75μm | 99.0 |
| 钛粉末 Titanium powder | TS125×200 | 30kg/h | 44μm | 77.0 |
| 三氧化锑 Antimony trioxide | TS125×200 | 130kg/h | 45μm | 98.1 |
| ABS树脂 ABS resin | TS250×200 | 400kg/h | 500μm | 94.0 |
| 粉体涂料聚脂 Powder paint | TS125×200 | 100kg/h | 130μm | 99.0 |
| 漂白粉 Bleaching powder | TS500×400 | 1,600kg/h | 250μm | 95.1 |
| 干燥卵白 Dry albumen | TS250×200 | 2,000kg/h | 380μm | 99.0 |
| 海藻粉末 Seaweed powder | TS125×200 | 110kg/h | 105μm | 97.0 |
| 乳糖造粒品 Lactose granules | TS125×200 | 125kg/h | 150μm | 96.0 |

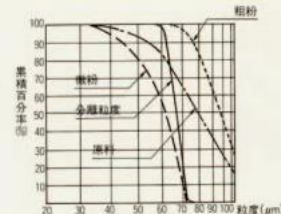
异物去除业绩

| 原料 Raw materials | 机器类型 Model used | 能力 Capabilities | 筛网开孔 Sieve net opening |
|-------------------------------|--------------------|--------------------|---------------------------|
| 硫磺粉 Sulfur powder | TS500×400 | 1,000kg/h | 710μm |
| 铁酸盐烧制品 Ferrite burnt products | TS500×400 | 3,000kg/h | 355μm |
| 粉体涂料环氧树脂 Powder paint epoxy | TS250×200 | 330kg/h | 150μm |
| 氨基酸 Amino acid | TS250×200 | 400kg/h | 840μm |



分離粒度曲線

原料:フェライト(スプレードライ品)
機種:TS250×400
能力:100kg/h
スクリーン:75μ





高新技术企业
High-tech enterprise



高新技术产品认定
High-tech product identification



中国科学院苏州纳米研究所产学研基地
Suzhou Institute of Nanotechnology, Chinese Academy
of Sciences, Designation of Joint Research Centers



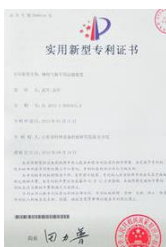
中南大学合作设立博士生工作站
Collaboration with Central South University
to establish a doctoral internship



ISO9001认证
ISO9001 certification



ISO14001认证
ISO14001 certification



专利证书
Patent certificate

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欧洲CE认证
CE certification in Europe



韩国KCs认证
KCs certification in Korea



进出口业务许可证
License of import and export business



防爆设备安装认证
Explosion-proof equipment
installation certification



防爆设备维护认证
Explosion-proof equipment
maintenance certification

锂电设备 粉体机器

