

亚世 装备 焦化篇

节能降耗与利润提升解决方案



关于我们

山西亚世智能装备有限公司坐落于山西省太原市综改区安泰信科技产业园，是一家智能设备研发、制造与销售的高新技术企业。

公司研发团队由行业专家组建，拥有多学科高水平的研发团队，行业经验丰富，可为用户提供全方位的产品解决方案。公司基于在自动化和智能化装备方面的持续创新和攻关，现已成功开发出拥有自主知识产权的全工况智能筛、移动密封布料装置、无尘智能释放装置、环保溜槽、焦车定位系统、上升管全自动点火系统、智能炼焦系统、炉底智能巡检系统、布料小车无人化系统、荒煤气自动放散系统及拦焦车焦线自动测量系统等。

公司专注于焦化行业，可提供物料输送全流程先进设备及智能控制系统。公司设备水平和技术能力在业内久经验证并得到用户高度认可。

ABOUT US

Shanxi Yestechny Intelligent Equipment Co., Ltd. is located in Antaixin Science and Technology Industrial Park, Comprehensive Reform Zone, Taiyuan City, Shanxi Province. It is a high-tech enterprise in research and development , manufacturing and sales of intelligent devices.

The company's R&D team is composed of industry experts, with a multidisciplinary and high-level R&D team and rich industry experience, which can provide users with a full range of product solutions. Based on continuous innovation and research in automation and intelligent equipment, the company has successfully developed all-condition intelligent screen, mobile sealing spreader , dust-free intelligent release device, environmental chute , coke cars positioning system, riser automatic ignition system, intelligent coking system, furnace bottom intelligent inspection system,unmanned spreader system, crude gas automatic venting system , automatic coke line measurement systems for pusher cars etc.

The company focuses on the coking industry and can provide advanced equipments and intelligent control system for the entire process of coke transport. The equipments made by YESTECHY and their technical capacity have been durably tested in the industry and highly recognized by users.



产品信息表

Products Series Table

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全工况无动力焦炭筛

All-condition intelligent screen

► 全工况智能筛为无动力型，节能显著，年节省电费约 20-45 万元

All-condition intelligent screen is unpowered, significant energy saving , saving electricity costs about 250,000 to 400,000 yuan per year

► 陶瓷内衬，寿命长，低维护费，年节省维护费用 20-30 万元

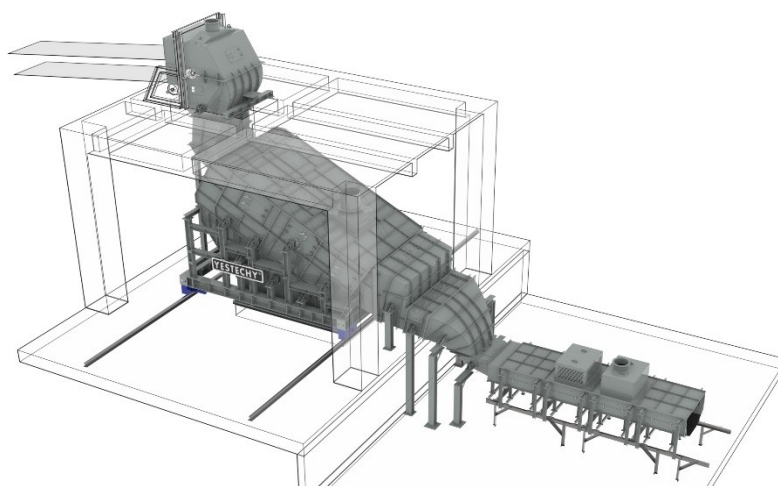
Ceramic- lined, long-lasting , less maintenance fee, saving maintenance costs 200,000 to 300,000 yuan per year

► 粉尘比传统振筛降低 50% ，密封性能优异，除尘效率高，现场环境干净整洁，环保效益显著

50% less dust compared to the traditional vibration sieve, with excellent sealing performance, high dust removal efficiency, clean and tidy on-site environment, significant environmental benefits

► 柔性加载，立体筛分，经济效益显著，按照产能 100 万吨 / 年，减少破损 0.1% ，年经济效益可达 120 万元

Flexible loading and three-dimensional screening, significant economic benefit , suppose the production capacity of 1 million tons per year and the reduction of damage by 0.1% , which generated a revenue of 1.20 million yuan.



技术参数

Technical Parameters

适用工艺

Applicable process

干熄焦、湿熄焦（具体情况需厂家确认）

Dry quenching and wet quenching (the specific situation varies by users)

筛分效率

Screening efficiency

≥90%

≥90%

处理能力

Handling capacity

≤650T/H

≤650T/H

环保溜槽

Environmental chute

► 不堵料，冲击小，物料破损率降低 0.25-2%

No blocking, low impact , 0.25-2% reduction in material damage rate

► 陶瓷内衬，寿命长，免维护

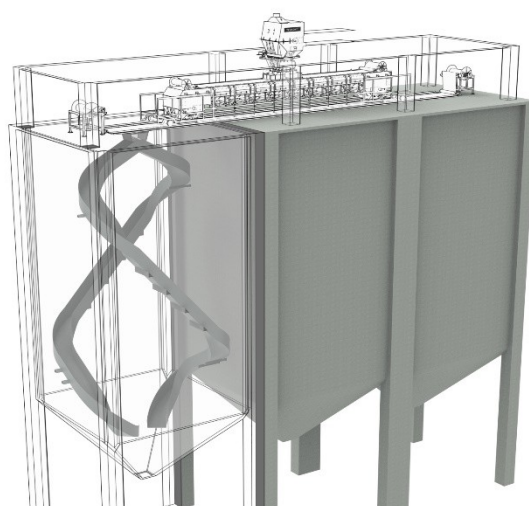
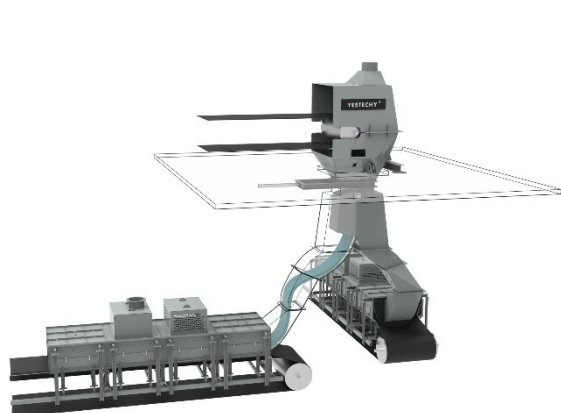
Ceramic-lined, long lasting, maintenance-free

► 粉尘比 DTII 溜槽降低 50%，密封性能优异，除尘效率高，环保效益明显

50% dust less compared to the DTII chute, with excellent sealing performance, high dust removal efficiency and significant environmental benefits

► 柔性、居中加载，物料汇集度高，有效降低皮带磨损， 延长皮带寿命 2 倍以上

Flexible, centered loading, high material collection degree, effectively reduced belt wear and extend the belt lifespan by more than double.



技术参数

Technical Parameters

应用场景

Application scenarios

适用物料

Applicable materials

转运方式

Transport method

处理能力

Handling capacity

皮带转运站、储料筒仓、各式布料机

Belt transfer station, material storage silo, all kinds of spreaders

焦炭、煤炭等物料

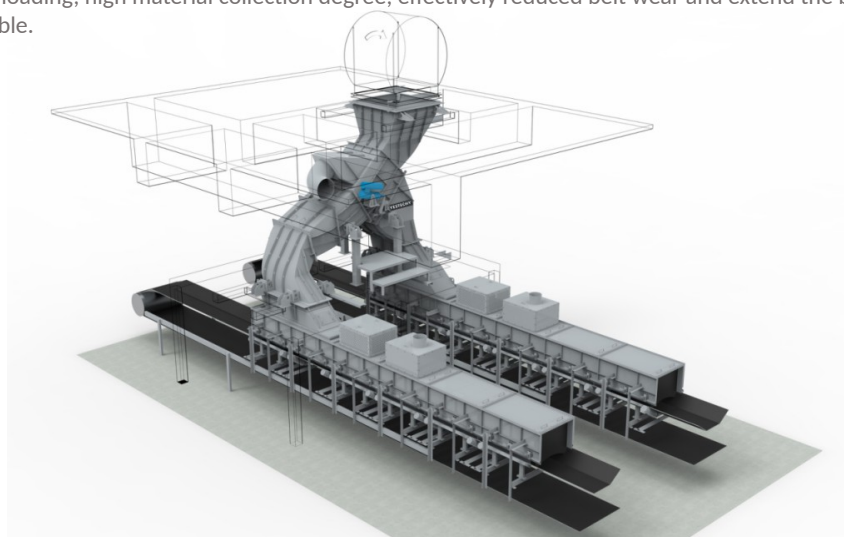
Coke, coal and other materials

1 对 1、

干熄焦排焦溜槽

CDQ coke discharge chute

- ▶ 耐高温 250-300°C**
 High temperature resistance up to 250-300°C
- ▶ 不堵料，冲击小，物料破损率降低 0.25-2%**
 No blocking, low impact , 0.25-2% reduction in material damage rate
- ▶ 陶瓷内衬，寿命长，免维护**
 Ceramic-lined, long lasting, maintenance-free
- ▶ 粉尘比 DTII 溜槽降低 50%，密封性能优异，除尘效率高，环保效益明显**
 50% dust less compared to the DTII chute, with excellent sealing performance, high dust removal efficiency and significant environmental benefits
- ▶ 柔性、居中加载，物料汇集度高，有效降低皮带磨损， 延长皮带寿命 2 倍以上**
 Flexible, centered loading, high material collection degree, effectively reduced belt wear and extend the belt lifespan by more than double.



技术参数

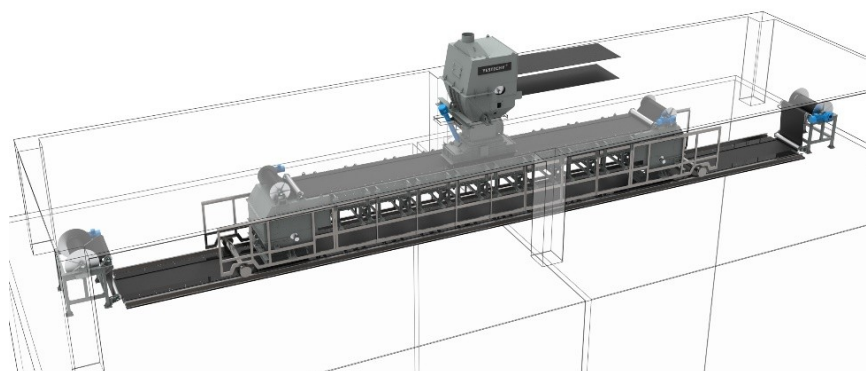
Technical Parameters

应用场景 Application scenarios	干熄焦排焦溜槽，旋转密封阀下 Coke Discharge Device of CDQ,Below rotary sealing valve lower chute
适用物料 Applicable materials	高温焦炭 High-temperature Coke
转运方式 Transport method	1 对 1、1 对 2、1 对 3 等 1 versus 1,1 versus 2,1 versus 3, etc
处理能力 Handling capacity	≤650T/H ≤650T/H

移动密封布料装置

Mobile sealing spreader

- 整体动态密封结构，减少粉尘泄漏，提高除尘效率**
 The overall dynamic sealing structure can reduce dust leakage and improve dust removal efficiency
- 采用全新环保溜槽及摆动换向结构，柔性加载，冲击小**
 Adopt a new environmental protection chute and swing reversing structure with flexible loading and small impact
- 陶瓷内衬，免维护**
 Ceramic-lined, maintenance-free
- 无冷加速，延长布料皮带寿命 2 倍以上**
 No sudden acceleration, prolong the life of the belt by more than double
- 自带精确对位装置及物料高度检测，为无人值守提供软硬件支持**
 Equipped with an accurate positioning device and material height detection, providing hardware and software support for unmanned operations.



技术参数

Technical Parameters

适用工艺
Applicable process

应用场景
Application scenarios

处理能力
Handling capacity

各式皮带布料装置
Various belt spreader

仓顶布料
Warehouse top spreading

≤4500T/H

≤4500T/H

无尘智能释放装置

Dust-free intelligent release device

▶ 伸缩溜槽，柔性加载，冲击速度降低 50%，高位装车，物料破损少

Retractable chute, flexible loading, impact speed reduced by 50%, high loading, less material damage

▶ 陶瓷内衬，寿命 3-5 年，免维护

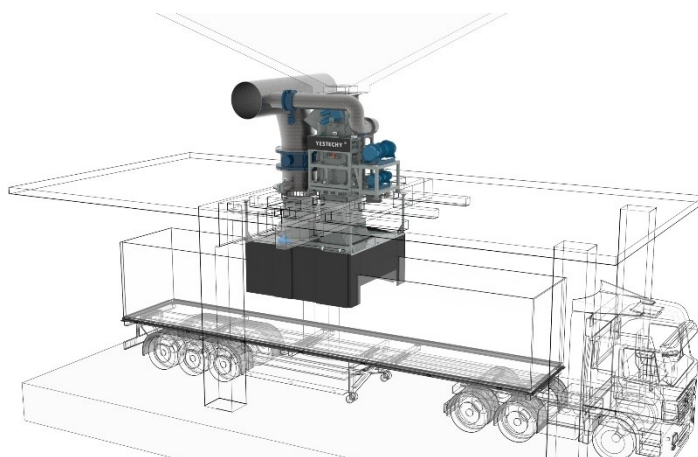
Ceramic lined, lifetime 3-5 years, maintenance-free

▶ 粉尘比传统装车装置降低 50%，优先、近位除尘设计，有效降低“野”风量，提高除尘效率

50% dust less compared to the traditional loading device, the priority and near dust removal design can effectively reduce the "wild" air volume and improve the dust removal efficiency

▶ 自动装车，满载率高且无明显撒料

Automatic loading, a high load factor and no obvious sprinkling material



技术参数

Technical Parameters

适用工艺

Applicable process

应用场景

Application scenarios

筒仓装车放料

Warehouse loading and discharging

汽车装车、火车装车

Truck loading, train loading

皮带清扫箱

Belt sweeping box

► 拒水聚氨酯刀头，高效清扫，有效解决皮带通廊扬尘、撒料

Water-resistant polyurethane blade, efficient cleaning, effectively solving dust and spillage issues in the belt corridor

► 多级缓冲、分体刀头，高效解决回程皮带抖动造成的撒料

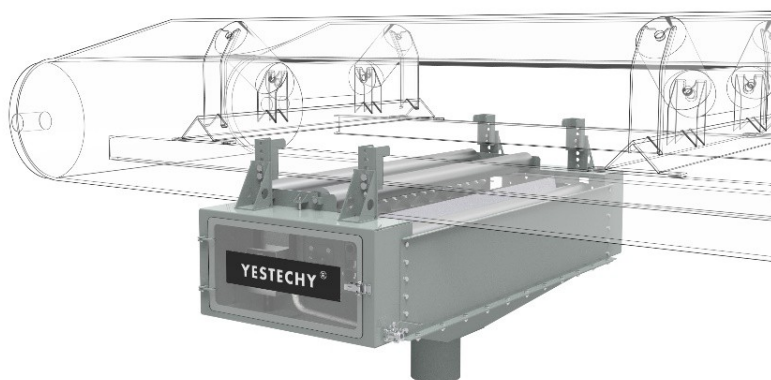
Multi-stage buffer, split blade, efficiently solve the spillage caused by the return belt shaking

► 结构简单，易于维护

Simple structure and easy to maintain

► 可选配雾化 / 可调水量喷嘴、水压控制阀组，本地 / 远程控制

Optional atomization / adjustable water supply nozzle, water pressure control valve set, local / remote control



技术参数

Technical Parameters

适用物料

Applicable materials

焦炭、煤、铁矿石等散料

Coke, coal, iron ore and other bulk materials

应用场景

Application scenarios

皮带运输

Belt transport

运力范围

Capacity range

10000T/H

10000T/H

皮带带宽

皮带清扫器

Belt sweeper

- ▶ **Tuffshear 专利聚氨酯刀头，具有超长耐磨性且不易磨损皮带。双侧减震弹簧结构，压力稳定，调节方便。快换刀头，维护简便**

Tuffshear Patent polyurethane blade with exceptional wear resistance and minimal belt wear. Bilateral damping spring structure, stable pressure and easy adjustment, quick change of blade, simple maintenance.

- ▶ **四级缓冲结构，提供均衡清扫压力，降低皮带磨损**

Four-level buffer structure to provide balanced cleaning pressure and reduced belt wear

- ▶ **分体刀头，互不干涉，应对不同厚度的物料粘结**

Split blades, non-interference with each other, dealing with different thickness materials bonding



技术参数

Technical Parameters

适用物料

Applicable materials

输送方式

Conveying method

适用带速

Applicable belt speed

皮带带宽

Belt width

煤、焦炭、矿石等物料

Coke, coal, iron ore and other bulk materials

皮带运输

Belt conveying

≤4.5M/S

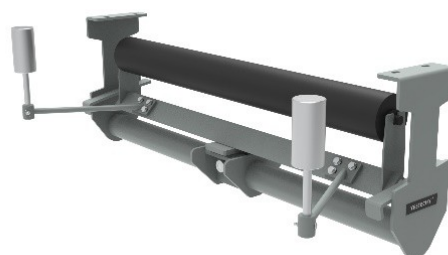
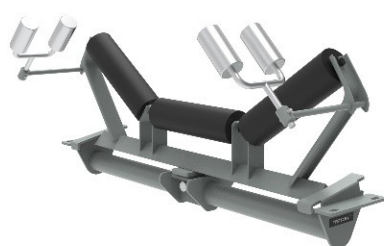
皮带纠偏装置

Belt correction device

- 3D 立体纠偏，实时调整皮带居中运行

3D three-dimensional deviation correction, real-time adjustment of the belt centered operation
- 特种材质关节轴承，长效、灵活

Special material joint bearings are long-term and flexible



技术参数

Technical Parameters

适用物料
Applicable materials

煤、焦炭、矿石等物料
Coal, coke, ore and other bulk materials

适用运力范围
Capacity range

≤6500T/H
≤6500T/H

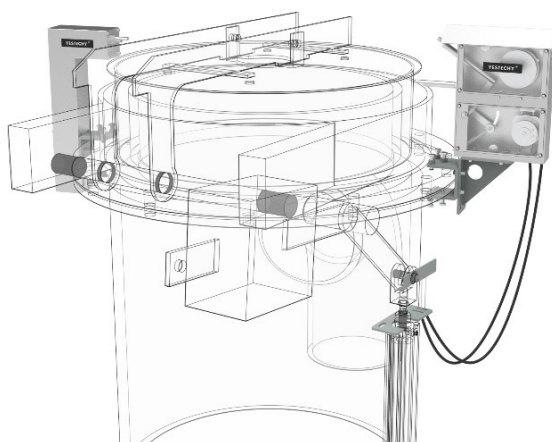
皮带带宽
Belt bandwidth

800mm-1800mm
800mm-1800mm

上升管全自动点火系统

Riser automatic ignition systems

- 结构简单，易安装**
 Simple structure and easy to install
- 耐高温、耐腐蚀，运行稳定**
 High temperature resistance, corrosion resistance, stable operation
- 升温速度快，点火效率高**
 Fast heating speed and high ignition efficiency
- 可选配立体点火方式**
 Stereoscopic ignition is optional



技术参数

Technical Parameters

设备尺寸

Equipment size

L80mm*W80mm*H470mm

L80mm*W80mm*H470mm

设备材质

Equipment material

304 不锈钢

304 stainless steel

点燃时间

Ignite time

2S/600℃ , 3S/900℃

2S , 3S/900℃

供电电压

Supply voltage

AC12V/35W

AC12V/35W/600℃

智能炼焦系统

Intelligent coking system

- ▶ **全炉炭化室过程跟踪，大数据专家模型，智能加热控制**
Full-furnace carbonization chamber process tracking, big data expert model, intelligent heating control
- ▶ **均衡加热调火技术**
Equalized heating and fire control technology
- ▶ **提升焦炭质量、产能，降低能耗 3-5%**
Improve the quality and production capacity of coke, reduce energy consumption by 3-5%



技术参数

Technical Parameters

I 级采集系统

Level I acquisition system

II 级专家模型控制系统

Level II expert model control system

炉底智能巡检系统

Furnace bottom intelligent inspection system

► 代替人工巡检，提高巡检效率，降低安全隐患

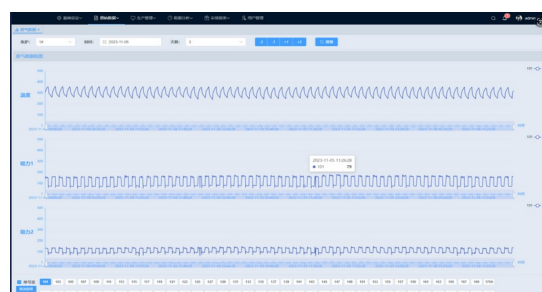
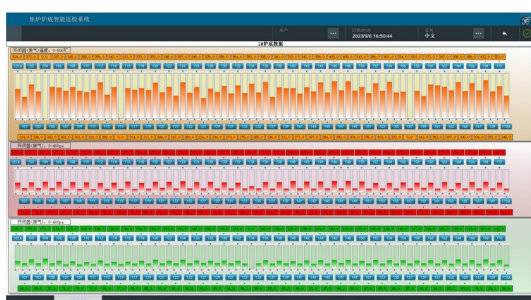
Instead of manual inspection, improve inspection efficiency and reduce safety risks

► 实时监测开闭器状态，及时发现异常并准确告知故障位置，语音报警提示

Monitor the state of the switch in real time, timely detect anomalies and report the fault location, generate voice alarm prompt

► 提高生产安全可靠

Improve production safety and reliability



技术参数

Technical Parameters

实时高速数据采集

Real-time and high-speed data acquisition

II 级专家模型控制系统

Level II expert model control system

愿景

成为智能装备细分领域的引领者

使命

推动焦化行业智能升级

助力科技强国智慧创新

价值观

可靠 可信 可持续

尊重 理解 提供价值

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