



青岛科尼乐智能装备科技有限公司

QINGDAO CO-NELE Intelligent Equipment Technology Co., Ltd

地址 (Add): 青岛市城阳区玉皇岭工业园

(Yuhuangling Industrial Park Chengyang Dist Qingdao City China)

邮编 (P.C.): 266107

电话 (Tel): 150 5325 7766

198 5323 6220

0086-532-8787 6998

传真 (Fax): 0086-532-8778 1086

邮箱 (E-mail): sales@co-nele.com

网址 (http): www.cone-le.com



CHS 危废固废专用高效搅拌机

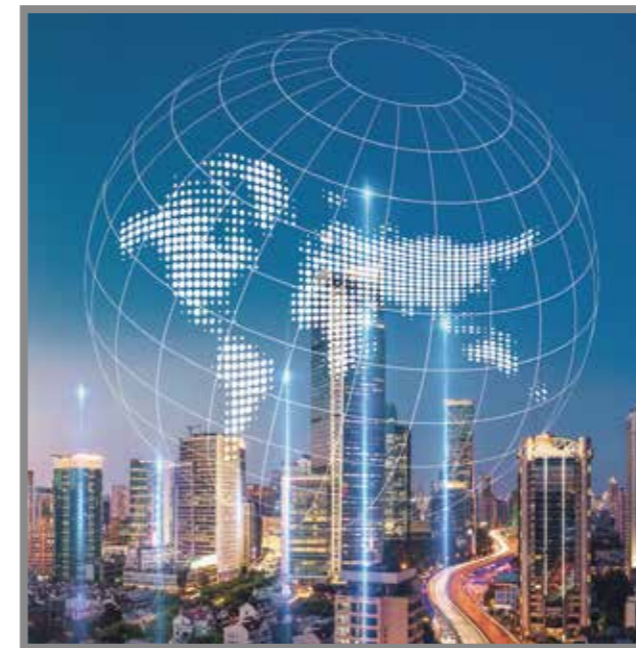
Special high efficiency mixer for hazardous waste and solid waste



CO-NELE 科尼乐智能装备

智能资源化处理装备整套解决方案

A complete solution for intelligent resource processing equipment



因本产品不断改进如有改动恕不另行通知

Production may change due to technical progress subject may be modified without notice

公司简介 Company profile

青岛科尼乐智能装备科技有限公司是一家专业从事危废固废、医废、飞灰、污泥处置及其它环保设备的研发、生产、销售的综合企业，公司以人为本，科技兴企，注重培养人才，积极引进学习国内外先进技术，致力于打造市场认可和客户满意的产品。公司技术力量雄厚、工艺手段完备，具有自主开发设计能力，我国最专业化、最具实力的混合设备制造商之一；公司与清华大学、武汉大学、哈尔滨工业大学、重庆大学、浙江大学等国内知名高校及科研机构进行广泛的合作，目前公司产品出口至欧洲、美洲、亚洲、非洲、大洋洲等80余国家和地区。

Qingdao CO-NELE Intelligent Equipment Technology Co., Ltd. is a comprehensive enterprise specializing in the research and development, production, and sales of hazardous waste, solid waste, fly ash, sludge disposal, and other environmental protection equipment. The company is people-oriented, technology-based, focuses on cultivating talents, actively introduces and learns advanced technologies from both domestic and foreign sources, and strives to create products that are recognized by the market and meet customer satisfaction. The company has strong technical strength, complete technological means, and independent development and design capabilities. It is one of the most professional and powerful hybrid equipment manufacturers in China; The company has extensive cooperation with well-known domestic universities and research institutions such as Tsinghua University, Wuhan University, Harbin Institute of Technology, Chongqing University, and Zhejiang University. Currently, the company's products are exported to more than 80 countries and regions such as Europe, America, Asia, Africa, and Oceania.



业务范围 Business scope



CWF 系列智能危废处置成套设备

CWF series of complete equipment for hazardous waste disposal

危废处置成套设备主要采用了固化稳定化处理方式。

该系列设备混合系统采用科尼乐先进的双轴强制式搅拌机，搅拌臂流线型设计(专利)，粘料小，搅拌效率高，搅拌处理量大，保证固化剂与危废物料充分混合，处理效果好；该系列设备一机两用，除处置常规危废外同时还可单独处置飞灰。

The mixing system of this series of equipment adopts the advanced twin-shaft forced mixer of CO-NELE, with streamlined design of mixing arm (patent), small viscosity, high mixing efficiency, large mixing capacity, ensuring the full mixing of curing agent and hazardous waste material, and good treatment effect; This series of equipment can be used for one machine and two functions. In addition to conventional hazardous waste disposal can also be separate disposal fly ash.



危废处置优势 Advantages of waste disposal

- 主机采用自主研发并具有自主知识产权的危废专用双轴搅拌机，故障率低，生产效率高；
- 物料称量装置采用全电子称重模块，计量准确，自动化程度高；
- 单元模块化设计，安装方便，迅速；
- 集危废飞灰一体化设计理念，满足用户多元化处置危废的需求。
- Mixing adopts double-axis horizontal mixer, low failure rate and high production efficiency.
- Material weighing device using all-electronic weighing module, accurate measurement, high degree of automation.
- Modular unit design, easy and fast to install.
- Integrated design concept of waste and fly ash treatment, to meet diverse needs of waste treatment.



CWF系列危废处置设备主要技术参数表 Technical data

处理能力仅供参考，实际处理量取决于物料种类及固化工艺

项目 Item	型号 Type	CWF100	CWF150	CWF200	CWF300	CWF450
搅拌主机 Mixer		CHS1000	CHS1500	CHS2000	CHS3000	CHS4500
处理能力 Input (t/h)		3-6t/h	5-10t/h	6-12/h	9-18/h	15-30/h
处置种类 Out put		飞灰/危废 fly ash/hazardous waste	飞灰/危废 fly ash/hazardous waste	飞灰/危废 fly ash/hazardous waste	飞灰/危废 fly ash/hazardous waste	飞灰/危废 fly ash/hazardous waste

CHF 系列智能飞灰处置成套设备

CHF series intelligent fly ash disposal complete equipment

飞灰固化处置方法主要采用国内外常用的螯合剂稳定化水泥固化法，水泥是危险废物固化剂，螯合剂是飞灰稳定化中重要的添加剂，飞灰被掺入水泥的基质中并加入定量的螯合剂，经过一系列的物理、化学作用，使污染物在水泥基质体系中的迁移率降低至最低，同时添加一些液剂辅料以增进反应过程，最终使粉状的飞灰物料变成粘合的飞灰混合块。

The solidification disposal method of fly ash mainly adopts the commonly used chelating agent stabilization cement solidification method at home and abroad. Cement is a hazardous waste solidification agent, and chelating agent is an important additive in fly ash stabilization. Fly ash is added to the cement matrix and a quantitative chelating agent is added. After a series of physical and chemical reactions, the migration rate of pollutants in the cement matrix system is reduced to the minimum. At the same time, some liquid additives are added to enhance the reaction process, ultimately turning the powdered fly ash material into a bonded fly ash mixture block.



飞灰处置优势 Advantages of fly ash disposal

- 飞灰固化工艺的差异化设计，解决了不同状态的飞灰处置问题；
- 节能环保理念的运用在飞灰处置中得到充分体现；
- 润滑点的集中设计，使维护简易方便；
- 单元模块化设计，安装方便，迅速。
- The differentiated design of fly ash device solves the problem of disposal fly ash in different states.
- The application of energy saving and environmental protection concept is fully reflected in the disposal of fly ash.
- The centralized design of lubrication point makes the maintenance simple and convenient.
- Modular unit design, easy and fast to install.



CHF系列飞灰处置设备主要技术参数表 Technical data

处理能力仅供参考，实际处理量取决于物料种类及固化工艺

项目 Item	型号 Type	CHF06	CHF75	CHF100	CHF150	CHF200	CHF300	CHF450
搅拌主机 Mixer		CSS60	CHS750	CHS1000	CHS1500	CHS2000	CHS3000	CHS4500
处理能力 Input (t/h)		0.2-0.5t/h	2-5t/h	3-6t/h	5-10t/h	6-12t/h	9-18t/h	15-30t/h
处置种类 Out put		飞灰 fly ash	飞灰 fly ash	飞灰 fly ash	飞灰 fly ash	飞灰 fly ash	飞灰 fly ash	飞灰 fly ash

CGF系列智能大宗固废处置成套设备

CGF series intelligent bulk solid waste disposal complete equipment

本着对大宗固废无害化、减量化、资源化处置的目标,我公司从实际情况出发,运用成熟、可靠、高效、节能、经济、实用的技术,为客户减少工程投资及日常运行费用。

In line with the goal of harmless, reducing and resourcebased disposal of bulk solid waste, our company starts from the actual situation and applies mature, reliable, efficient, energy-saving, economic and practical technologies to reduce engineering investment and daily operation costs for customers.



磷石膏处理
Phosphogypsum treatment

尾矿填充
Tailings filling

大宗固废处置优势 Advantages of bulk solid waste disposal

- 大容量搅拌机在大宗固废处置中的应用提高了生产率;
- 新材料新工艺在大宗固废处置中的应用解决了物料粘结的问题;
- 各种执行阀的灵活选用满足大宗固废处置的特种工艺要求;
- 各模块的有序衔接,运行流畅,自动化程度高。
- The application of large capacity mixer in bulk solid waste disposal increases productivity.
- Application of new material technology in bulk solid waste disposal solves the problem of material bonding.
- The flexible selection of various execution valves meets the special process requirements of bulk solid waste disposal.
- The orderly connection of each module makes smooth operation and high degree of automation.



污泥制砖
Manufacturing bricks from sludge

CGF系列污泥处置设备主要技术参数表 Technical data

处理能力仅供参考,实际处理量取决于物料种类及固化工艺

项目 Item	型号 Type	CGF200	CGF300	CGF450	CGF600
搅拌主机 Mixer		CHS2000	CHS3000	CHS4500	CHS6000
处理能力 Input (t/h)		60t/h	90t/h	135t/h	180t/h
处置种类 Out put		大宗固废 Bulk solid waste	大宗固废 Bulk solid waste	大宗固废 Bulk solid waste	大宗固废 Bulk solid waste

CYF系列智能医废处置成套设备

CYF series intelligent medical waste disposal complete equipment

由于医疗废物的特殊性,基于医疗危废无害化,自动化,简化的目标。我公司特基于大量现场数据研发自动处置设备,运用成熟,可靠,高效,节能,经济,实用等技术,为客户解决医废处置难题。

Due to the particularity of medical waste, the goal is to achieve harmless, automated, and simplified treatment of medical hazardous waste. Our company has developed automatic disposal equipment based on a large amount of on-site data, using mature, reliable, efficient, energy-saving, economical, practical and other technologies to solve the problem of medical waste disposal for customers.



医废处理设备优势 Advantages of medical waste disposal

- 专用设备保证总处理量,研发专用微处置混合机,更适合医废处置要求。
- 各种设备的专用配合,进一步提高医废处置设备的特种工艺要求。
- 各模块有序衔接,运行流畅,自动化程度高。
- Specialized equipment ensures total processing capacity, and the development of specialized micro disposal mixers is more suitable for medical waste disposal requirements.
- The specialized coordination of various equipment further enhances the special process requirements for medical waste disposal equipment.
- Each module is orderly connected, running smoothly, and has a high degree of automation.



CYF系列医废处理设备主要技术参数表 Technical data

处理能力仅供参考,实际处理量取决于物料种类及固化工艺

项目 Item	型号 Type	CYF60	CYF90	CYF150	CYF250
搅拌主机 Mixer		CSS60	CSS90	CSS150	CSS250
处理能力 Input (t/h)		0.5t/h	1t/h	1.5t/h	3t/h
处置种类 Out put		医废 Medical waste	医废 Medical waste	医废 Medical waste	医废 Medical waste

CNF 污泥管道输送成套设备

CNF complete set of equipment for sludge pipeline transportation

污水处理厂的污泥输送作为污水处理工艺与技术中的一个重要环节,目前仍停留在带式输送机、刮板输送机、运输槽车等传统的敞开式运输阶段。这种敞开式运输方式不仅粘挂、滴淌、污染环境,而且基建投资多、占地面积大,现已成为污水处理厂所面临的一个主要问题。

青岛科尼乐为解决这种传统输送方式中存在的问题。专门开发出的CNF污泥管道输送成套设备,以高压、高浓度、长距离、全封闭的管道输送方式为污水处理厂污泥洁净输送提供了一系列解决方案。

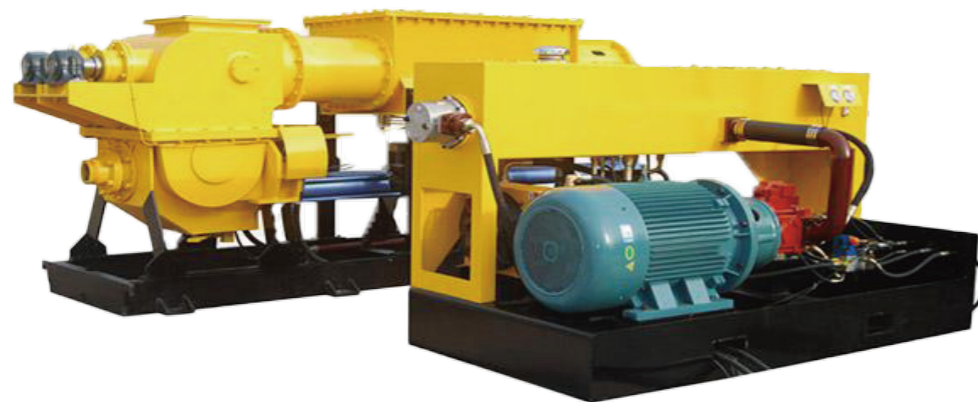
CNF污泥管道输送系统由保浆缓存仓、正压给料机、闸板阀、膏体泵、膏体输送管、分配器、给料设备等设备组成,是集污泥成浆、贮存、搅拌、输送、给料于一体的高新技术产品。

该系统具有输送出口压力高、流量大、距离远、输送量无级调节、远程控制、输送过程无污染、管路布置灵活等特点,是污水处理厂污泥输送的一次革命。

The sludge transportation in sewage treatment plants, as an important part of sewage treatment processes and technologies, is still stuck in traditional open transportation stages such as belt conveyors, scraper conveyors, and transport tank trucks. This open transportation method not only causes sticking, dripping, and environmental pollution, but also requires a large amount of infrastructure investment and occupies a large area, which has become a major problem faced by sewage treatment plants.

CO-NELE aims to solve the problems in this traditional transportation method. The specially developed CNF sludge pipeline transportation equipment provides a series of solutions for clean sludge transportation in sewage treatment plants through high-pressure, high concentration, long-distance, and fully enclosed pipeline transportation methods.

The CNF sludge pipeline conveying system consists of a slurry buffer bin, a positive pressure feeder, a gate valve, a paste pump, a paste conveying pipe, a distributor, and feeding equipment. It is a high-tech product that integrates sludge pulping, storage, mixing, transportation, and feeding. This system has the characteristics of high outlet pressure, large flow rate, long distance, stepless adjustment of conveying volume, remote control, pollution-free conveying process, flexible pipeline layout, etc. It is a revolution in sludge conveying in sewage treatment plants.



污泥泵
Sludge pump

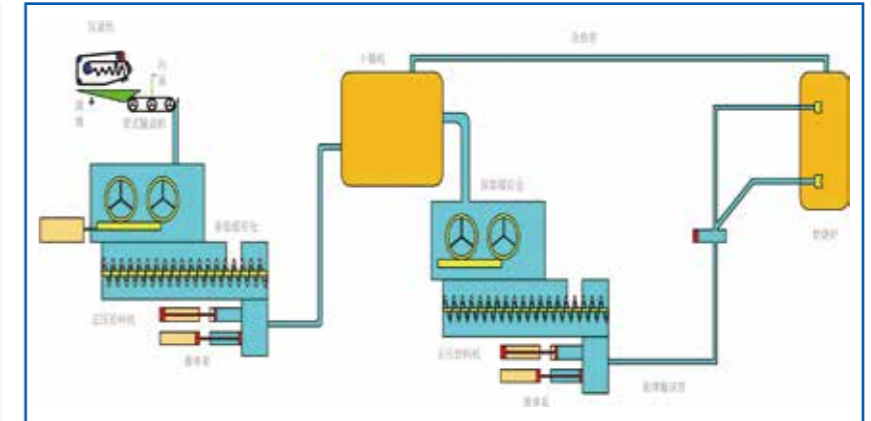
工艺流程 Technological process

目前对污泥的处理有三种形式:焚烧、填埋和堆肥。本系统可完全满足三种处理方式,可将压滤机下的脱水污泥直接输送至处理终端。

There are currently three forms of sludge treatment: incineration, landfill, and composting. This system can fully meet three treatment methods, and can directly transport the dehydrated sludge under the filter press to the treatment terminal.

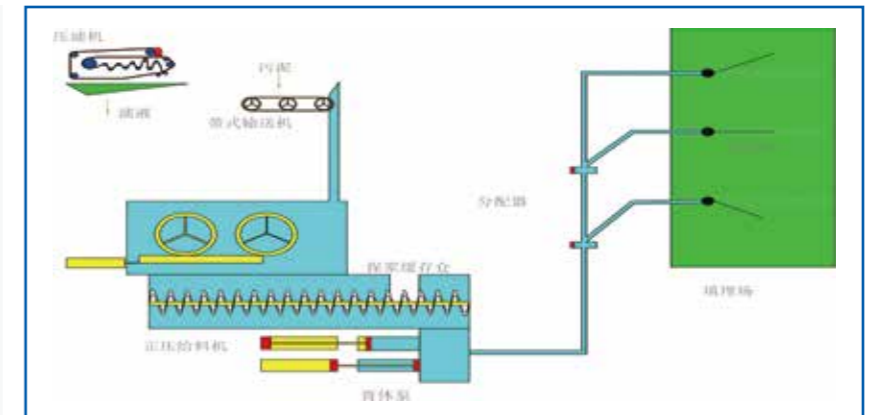
用于焚烧,本系统可直接输送到焚烧炉

Used for incineration, this system can be directly transported to the incinerator.



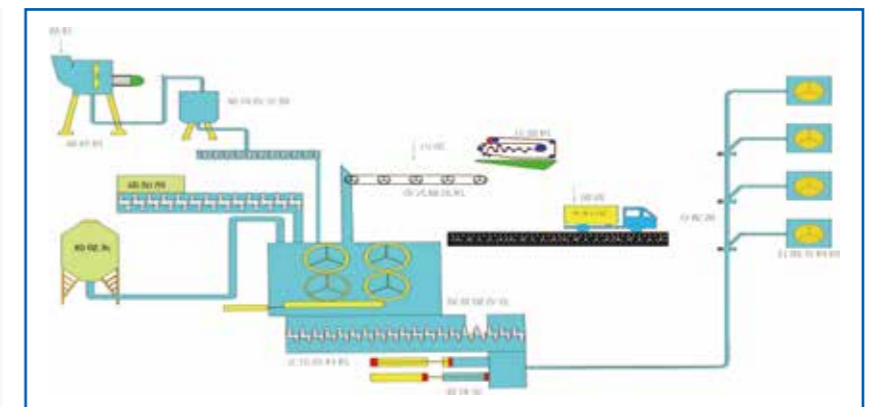
用于填埋,本系统可直接输送至填埋坑

Used for landfill, this system can be directly transported to the landfill pit.



用于堆肥,本系统可直接输送至堆肥仓

Used for composting, this system can be directly transported to the composting bin.





设备特点 *Equipment characteristics*

1. 多种结构形式的搅拌主机适用于不同的原材料

Mixing machines with various structural forms are suitable for different raw materials

经防腐处理的双卧轴搅拌机适合固体、污泥危废、大宗固废材料的搅拌,速度快,效率高。

The anti-corrosion treated double horizontal shaft mixer is suitable for stirring solid, sludge hazardous waste, and bulk solid waste materials, with fast speed and high efficiency.



经防腐处理的立轴行星式搅拌机适合高拌和均匀度的固体污泥、危废材料。

The vertical axis planetary mixer, which has undergone anti-corrosion treatment, is suitable for high mixing uniformity of solid sludge and hazardous waste materials.



不锈钢筒体的单卧轴螺带式搅拌机适用于污泥液态危废物料搅拌,密封性好耐腐蚀性能强。

The single horizontal axis screw belt mixer with stainless steel cylinder body is suitable for stirring sludge liquid hazardous waste materials, with good sealing and strong corrosion resistance.



倾斜式强力混合机适用于高效混合均匀的特种资源化回收利用材料。

The inclined strong mixer is suitable for efficient and uniform mixing of special resource recycling materials.





2. 专利设计的污泥计量系统 解决了粘料难题

The patented sludge metering system solves the problem of sticking materials.



3. 精准的飞灰、粉料计量系统 Accurate fly ash and powder measurement system.



4. 专业设计的螯合剂配料计量系统保证药剂均匀稳定 A professionally designed chelating agent ingredient metering system ensures the uniformity and stability of the agent.



5. 专利设计的废铁回收设备 实现了资源重复利用

The patented scrap iron recycling equipment achieves resource reuse.



6. 整套设备自动除尘废气酸碱 综合处理保证污染零排放

The entire set of equipment is equipped with automatic dust removal and comprehensive treatment of waste gas, acid and alkali, ensuring zero pollution emissions.



7. 配套的破碎系统、气力输送系统等装置保证原材料的预处理可用性

The supporting crushing system, pneumatic conveying system and other devices ensure the availability of raw material pretreatment.





8. 智能控制系统

Control system

- 对逻辑顺序控制有较高要求的可选PLC控制系统(可编程控制程序);
- 对调节回路较多的可选DCS系统(分布式控制系统);
- 对设备比较分散功能又相对独立的可选用FCS系统(现场总线控制系统);
- 对过程数据要求进行累计、加工、显示和记录的,采用SCADA系统(数据采集与监视控制系统)等。
- 最终实现原料库存管理,生产过程管理,质量管理,物流管理等功能。
- PLC control system(programmable control system)for logic sequence control.
- DCS system(distributed control system)for more regulating loop.
- FCS system(fieldbus control system)for scattered independent equipments.
- SCADA system(supervisory control and data acquisition) for accumulating, reprocessing, displaying, recording the process data.
- System can realize functions such as raw material-inventory manament, production process management, product quality management,logistics management, etc.



根据客户实际生产流程,可设计有:按投料顺序称量料/需要人工投料或其他操作时,现场蜂鸣灯提示/故障带检测装置及报警提示/生产部门直接派单至现场不同生产线,及其他客制化需求,为每一位客户打造符合自己工艺要求的自动化控制系统。

According to the customer's actual production process, it can be designed as follows: Weighing and discharging sequentially according to the charging sequence. When manual feeding or other operations are required, the on-site buzzer light will prompt/F ault zone detection device and alarm prompt/ Production department directly sends orders to different on-site production lines, and other customized requirements,so as to create an automatic control system that meets the technological of each customer.



9. 云平台管理系统

Cloud Platform Management System



A. 个性展示
Personalized display

B. 远程维护
Remote maintenance

C. 远程诊断
Remote diagnosis

D. 在线监测
Online monitoring

技术优势 *Technical advantages*

1. 智能的管理系统 *Intelligent management system*

通过互联网、物联网、云平台的对设备进行数字化、智能化管理。

Digital and intelligent management of equipment through the Internet, Internet of Things and cloud platform

2. 优良搅拌性能 *Excellent mixing performance*

搅拌主机采用德国技术。搅拌性能强，搅拌均匀、迅速，生产率高。对于干硬性、塑性及各种配比的物料均能达到良好的搅拌效果。

The mixing machine adopts German technology. Strong stirring performance, uniform and rapid stirring, and high productivity. Good mixing effect can be achieved for materials with dry hardness, plasticity, and various ratios.

3. 精准的计量精度 *Accurate measurement accuracy*

采用微机加仪表的控制方式，计算速度快、响应时间短；配合专利技术的点动补料及自动扣称功能，使计量精度在动态时达到并超过国家计量标准。

Adopting a control method of microcomputer and instrument, with fast calculation speed and short response time; Combined with the patented technology's jog feeding and automatic weighing functions, the measurement accuracy meets and exceeds the national measurement standards in dynamic conditions.

4. 完美的工业设计 *Perfect industrial design*

整机造型美观大方、结构布局合理、色彩怡人、操作更舒适、维修更方便。严密的逻辑思维、深刻的设计理念、周详的人机工程学处理和精致的细节设计是优秀产品的保障。

The overall design of the machine is beautiful and generous, with a reasonable structural layout, pleasant colors, more comfortable operation, and more convenient maintenance. Strict logical thinking, profound design concepts, meticulous ergonomic handling, and exquisite detail design are the guarantees of excellent products.

5. 简洁的操作性能 *Simple operational performance*

整机采用计算机控制，即可自动控制，也可手动操作，操作简单，易于掌握。

The whole machine adopts computer control, which can be automatically controlled or manually operated. The operation is simple and easy to master.

6. 优秀的环保性能 *Excellent environmental performance*

所有的粉状物料都在密封状态下进行。全封闭结构极大的降低了粉尘和噪音对环境造成的污染；可根据客户需要配置粉料仓集中除尘系统和污水处理回收系统，真正做到了零排放和无污染。

All powdered materials are processed in a sealed state. The fully enclosed structure greatly reduces the pollution caused by dust and noise to the environment; According to customer needs, a centralized dust removal system and a sewage treatment and recovery system can be configured for the powder silo, truly achieving zero emissions and no pollution.

服务系统 *Services*



售前服务 *Service before sales*

担当客户的参谋和助手，让用户的每一份投资都获得丰厚的回报；*Give advice to customer*
设备型号的选择：*Assist customer to choose the right model*
根据客户的特殊要求，设计制造产品；*Fabricate according to customer's requirement*
为客户培训技术人员；*Train operators for customer*
提供新、特、难等物料搅拌的技术咨询；*Technology consulting support for special material mixing*
拟定合适的技术方案。*Supply a suitable technical proposal*



售中服务 *Service in sales*

代办运输；*Transportation*
产品的预验收；*Inspection*
向客户介绍科尼乐的服务体系。*Introduce service system to customers*



售后服务 *Service after sales*

协助用户拟定首次施工方案；*Assist customer make the construction scheme*
设备安装调试；*Machine install and test*
现场排除故障，快速主动；*Site trouble clearing*
提供技术交流的机会；*Technical exchange*
免费拨打热线 *Free hotline: 400-661-6566*



增值服务 *Value added service*

重点项目全过程、零距离的技术跟踪服务；*Overall process follow-up service*
设备定期巡检服务；*Regular visit inspect*
为客户提供专业的定期保养标准。*Periodic maintenance standard made for customer*

服务承诺 *Service Promise*





工程案例 Projects

