

综合性有机废物处理产业链服务商  
Comprehensive organic waste treatment industry chain service provider  
专业化好氧发酵罐生产商  
Professional aerobic fermentation tank manufacturer

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河南鹤壁博龙畜牧机械有限公司  
HENAN HEBI BOLONG LIVESTOCK HUSBANDRY MACHINERY CO.,LTD

中国·河南  
HENAN · CHINA



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## 前言

### Foreword

博龙公司是一家专注于畜禽废弃物处理设备独立研发的生产厂家，拥有多项发明专利、实用新型专利等，近几年来一直关注国内外畜禽粪便无害化、资源化、生态化的处理进展情况，广泛调研国内、外的先进设备和技术，结合我们20多年的养殖经验，同时引进机械设计、机械制造、高级技术管理等各方面人才，形成了一支素质高、业务精、结构合理、基础扎实的技术研究及高效管理团队。

公司秉承“博龙相助，省心省力”的企业宗旨，可根据客户的具体情况进行优化设计和组合，为客户提供全套产品、解决方案和一站式服务。

Bolong company is a manufacturer focusing on independent research and development of organic waste treatment equipment, which own a number of independent invention patents and utility model patents. In recent years, it has been paying attention to the harmless, resourceful and ecological of domestic and foreign organic waste Processing progress, extensive research on domestic and foreign advanced equipment and technology; combining our 20 years of breeding experience; at the same time introducing mechanical design, machinery manufacturing, advanced technology, management personnel, formed a high-quality, sophisticated business, reasonable structure, Solid technical research and efficient management team. The company adheres to the corporate tenet of "Bolong helps each other and saves effort", and can optimize the design and combination according to the specific situation of customers, and provide customers with a full set of products, solutions and one-stop services.

### 集科研开发、生产制造和技术服务 为一体的科技型制造企业

A scientific and technological manufacturing enterprise integrating  
scientific research and development, manufacturing and technical services

## 目录

## CONTENTS

公司简介 Company profile	01 / 02
发展历程 Company history	03 / 04
先进生产线 Advanced Production Line	05 / 06
机器人焊接车间 Robot welding workshop	07 / 08
生产车间 Equipment workshop	09 / 10
高温好氧发酵罐设备介绍 Product presentation	
运行原理 Equipment operating principle	11 / 12
设备组成部分 Equipment components	13 / 14
技术参数 Technical parameters	15
设备多角度视图及尺寸 Multi angle views and dimensions	16
公司资质 Company Qualification	17
肥料检测报告 Professional fertilizer test report	17
适用范围 Application scope	18
发展优势 Development advantage	19 / 20
设备创新点及专利介绍 Patent	21 / 28
项目安装实例 Installation Example of Project	29 / 34
品质服务 Quality service	35 / 38

发展  
环境科技  
创造  
美好生活

Developing  
Environmental Science  
Technology to  
Create a Better Life



## 公司简介

博龙集团创立于1993年，从那时起，我们就致力于现代化畜禽养殖，2012年我们成立了以实用性、可靠性为出发点的自动化系列养殖设备专业研发生产企业—鹤壁市博龙畜牧机械有限公司，为畜禽业提供可满足未来需求的实用、经济、环保的饲喂系统和房舍设计等。截止目前，公司现有职工280人，其中管理人员18人，技术研发人员16人，技术工人156人。公司目前拥有综合生产车间六座，占地约8000多平方米。2015年公司响应于国家环保政策和根据市场需求，依据国家相关环保政策，充分了解行业的需求，成功研发国内新型的畜禽废弃物无害化处理设备，彻底解决养殖场的脏、臭、乱形象。

经济的运作，高效的自动化和成本清晰的管理是前提条件。我们的产品可以帮助您获得更高的产出，走向成功。

## About US

Bolong industrial was founded in 1993, since then, we devote to the modernization of livestock and poultry breeding. We founded Hebi City Bolong Animal Husbandry Machinery Co., Ltd. in 2013, an enterprise with specialized R&D production of automatic series of farming equipment, which take the practicability and reliability as the starting point. In order to provide various research and development plans of practical, economic, and environmental feeding system and accommodation equipment for livestock and poultry industry, which can meet the requirements in future. By far, our company has 180 staffs, including 18 managerial personnel, 16 technical R&D personnel and 156 technical workers. The company now has two comprehensive production workshops, covering an area of more than 8,000 square meters. In 2015, our company focuses on the state environmental protection policy and the market demand, according to the relevant national environmental policy, fully understand the needs of the industry, successfully developed new domestic livestock and poultry waste harmless disposal equipment, thoroughly solve the dirty, messy, rotten phenomenon of farm.

Economic operation, efficient automation and clear cost management are preconditions. Our products can help you achieve higher output, achieve success.

## company History

### 发展历程 →

我们具有智慧和力量，我们拥有方向和目标，所以我们能够展翅高飞。  
抓住机遇，和谐发展，与时俱进，  
27年的发展历程，我们沉淀许久。

1993

筹建鸡场  
Preparing to build chicken farm

1995

改变战略,自主孵化  
Change strategy, incubate independently

饲养第一批AA+白羽肉种鸡

raise the first batch of AA +  
white feather broilers breeder

2005

改造孵化技术

在董事长张学亮的带领下，经过几个月的努力，  
将19800型箱体式孵化机  
进行改造升级，大大提高  
孵化效率，并荣获中国先  
进适用技术交易会银牌

Under the leadership of chairman  
Xueliang Zhang, after several  
months of efforts to transform the  
incubation technology, the 19800  
box incubator was transformed  
and upgraded, which greatly  
improved the incubation  
efficiency and won the silver  
medal of the China Advanced  
Applicable Technology Fair.

2012

研发产蛋箱  
立体化养殖  
成立  
鹤壁市博龙畜牧有限公司

R & D egg production  
boxThree-dimensional breeding  
Established Hebi Bolong  
Livestock Co., Ltd.

2014  
2015

《我爱发明》来了  
"I Love Invention" is coming

2014年8月，中央电视台  
科技频道，《我爱发明》  
栏目组来我公司拍摄  
10月，《我爱发明—鸡蛋  
滚滚来》播出。  
2015年，录制《进击的达  
人—张学亮》

In August 2014, CCTV  
Technology Channel, The "I Love  
Invention" column group came to  
our company to shoot  
In October, "I Love Invention---  
Eggs rolling coming" was  
broadcast.  
In 2015, recorded "Adventure's  
Master-Xueliang Zhang"

2018

入选河南省  
2018—2020年重点培育  
的100家智能装备企业。  
11月，参加德国汉诺威国  
际畜牧展

Selected as one of the 100 key  
cultivation intelligent equipment  
enterprises in Henan Province in  
2018-2020.

2019

购买全球最快通快激光  
切管机TRULASER  
TUBE 7000 FIBER  
(T07)，与博龙公司其它  
设备组成的全自动化生  
产线，可实现年1000台  
发酵罐能力，真正成为  
国内首家发酵罐全自动  
生产线

Purchase the world's fastest  
TRUMPF laser tube cutter  
TRULASER TUBE 7000  
FIBER (T07), and composed a  
fully automated production  
line with other equipment of  
Bolong Company, which can  
realize the capacity of 1000  
fermentation tanks per year,  
and truly become the first fully  
automatic production line of  
fermentation tanks in China

2020

投资6000万建年产6万  
吨有机肥项目，  
实现农牧共生互动生  
态良好循环的生态畜牧  
产业体系

Invest 60 million RMB to build  
an annual output of 60000 tons  
of organic fertilizer project to  
realize the ecological animal  
husbandry industry system of  
symbiosis and interaction  
between agriculture and animal  
husbandry and good ecological  
circulation.

We have wisdom and strength, we have direction and goals, so we can fly high.  
Seize the opportunity, develop harmoniously and keep pace with the times.  
27 years of development, we have settled for a long time.

## 博龙先进生产线 Advanced production line



### 博龙智能制造全自动生产线

#### AUTOMATIC PRODUCTION LINE

国内首条 „ The first domestic automatic production line “

博龙采用通快智能全自动生产线,可实现年产1000台能力,是国内首家发酵罐全自动化生产线,高品质,高标准的生产理念已经扎根于我们的企业文化当中,我公司所购买的该生产线集全自动切割、焊接、精加工为一体,从而保证100%产品良品率,让客户用上省心、耐用、节能的固粪发酵产品一直是博龙公司永恒的追求。

Bolong adopts TRUMPF intelligent automatic production line with the highest production efficiency ,realize the annual production capacity of 1000 fermentation tank.Formed the first domestic automatic production line of fermentation tank with other equipments of Bolong Company. This production line integrates automatic cutting, welding, and finishing to ensure 100% product yield, so that customers can use worry-free, durable, energy-saving solid manure fermentation products has been the eternal pursuit of Bolong Company.



### 世界首发 „全球最快 “

德国通快激光切管机  
TRULASER TUBE 7000 FIBER (T07)

激光切割机  
TruLaser2040 fiber

激光切割机  
TruLaser3040 fiber



通快,作为钣金加工设备的全球领导者,以其出色的可靠性和高品质而闻名,公司引进国内首台全自动激光管材切割机TruLaser Tube 7000 fiber — 全球最快的激光切管机,可大大提高公司产能;两台激光切割机,±0.03mm的误差,保证切割面的高光洁度;每个模具的360°旋转,小零件自动落料,简单易学的操作,极大的提高了生产效率,以确保每笔订单的按时交货。5000R冲床被称之为世界上最快的冲床,搭载自动上下料系统,可以做到无人化生产。



数控冲床  
TruPunch 5000

数控冲床  
TruPunch 1000

折弯机  
TruBend 1100

Bolong intelligent processing tool, introduced the first domestic automatic laser tube cutting machine TruLaser Tube 7000fiber from TRUMPF Germany-the world's fastest laser tube cutting machine .TRUMPF's punch presses are known for their flexibility and stability. The 360 ° rotation of each mold, the automatic blanking of small parts, and the easy-to-learn operation greatly improve the production efficiency to ensure the timely delivery of each order . The 5000R punch is called the fastest punch in the world, equipped with an automatic loading and unloading system, which can achieve unmanned production.

博龙先进生产线  
Advanced production line

## 机器人 焊接车间

日本安川机器人>



### 焊接机器人

安川机器人MA2010 / OTC机器人FD-V6S

公司还拥有国际品牌日本安川焊接机器人10台，OTC焊接机器人5台和国产焊接机器人6台，发那科折弯机器人1台，解放人力的同时还保证了效率和品质，每个焊接工件都有特制的焊接工装，确保每件产品零部件的焊接标准化，为后续组装提供便利，大大提升生产效率。

The company has 10 Japanese Yaskawa welding robots, 5 OTC welding robots and 6 domestic welding robots. Each welding workpiece has a special welding tooling to ensure the standardization of welding of each product component and provide convenience for subsequent assembly.



### 博龙专机

< 坐标焊接机器人

博龙先进生产线  
Advanced production line



Bolong Equipment workshop  
博龙设备生产车间



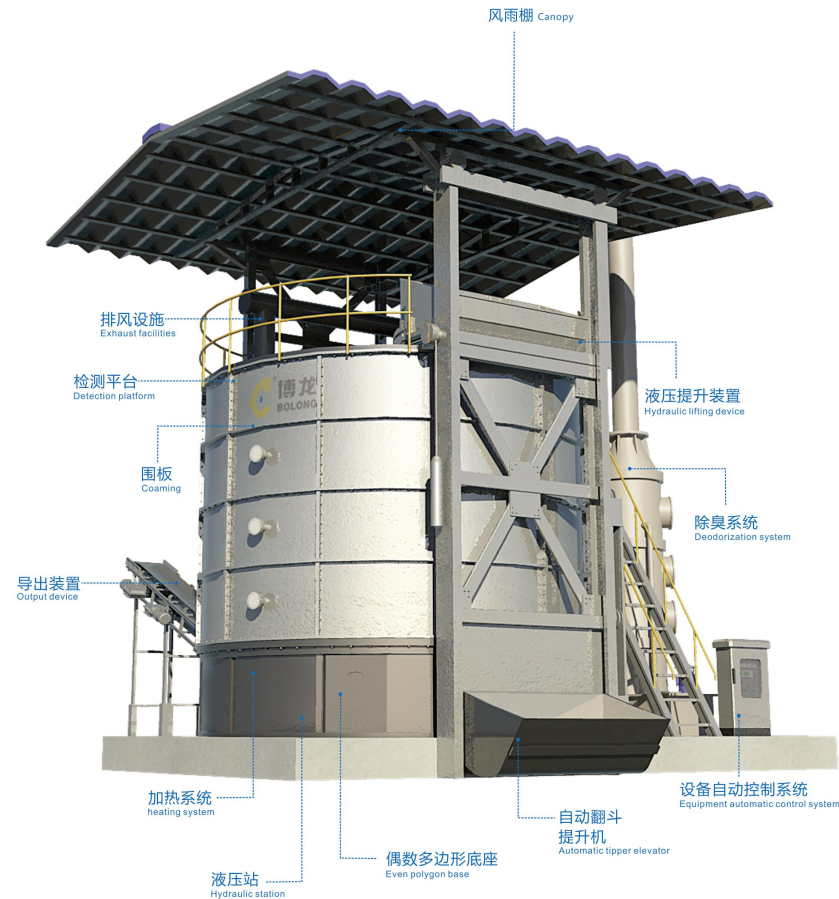
## 博龙高温好氧发酵罐 设备介绍 Product presentation



## 高温好氧发酵罐 设备介绍



Organic Waste  
Fermentation Tower  
Product presentation



### 设备运行原理

Equipment operating principle

“博龙”牌畜禽废弃物无害化处理设备，适合于不同粪便、畜禽尸体、餐厨垃圾、生活污水淤泥的处理，有机废弃物水分只要在70%以下，无需添加任何辅料，可以直接投入罐体内，该设备能够适应高温、高寒的不同地域，采用的是立式封闭罐体结构，减少了安装占地面积。设备采用好氧微生物有氧发酵原理，使微生物利用畜禽粪便和尸体中的有机质、残留蛋白等，在一定温度、湿度和充足氧气环境状态下，快速繁殖，从而实现畜禽废弃物的无害化处理。

“Bolong” brand organic waste harmless treatment equipment is suitable for the treatment of different feces, livestock and poultry carcasses, kitchen waste, domestic sewage sludge. As long as the water content of organic waste is below 70%, no auxiliary materials need to be added, can put into the tank directly. The equipment can adapt to different regions with high humidity and high cold, and adopts a vertical closed tank structure, which reduces the installation area. The equipment adopts the aerobic fermentation principle of aerobic microorganisms, so that the microorganisms use the organic matter and residual protein in livestock and poultry manure and kitchen waste to rapidly multiply under a certain temperature, humidity and sufficient oxygen environment, thereby realizing the organic waste Harmless treatment.



### 设备运行原理

Equipment operating principle

它是一个连续的系统，每天都可以投放废弃物，有机肥料每天都在产出。斗式提升机提起有机废物，并自动将其放入（罐体）中。有机废物通过搅拌叶片在罐内混匀。特殊的热交换器利用废气的热量来加热新鲜空气并使其进入罐体，热空气从叶片上的孔中吹出。温暖的空气加速了有机废物的有氧发酵和水分的蒸发，平均7天后，有机废物就被转化为高品质的有机肥料。

It is a continuous system where waste can be thrown in every day and organic fertilizers are produced every day. The bucket elevator lifts the organic waste and automatically puts it into the (tank). Organic waste is mixed in the tank by stirring blades. A special heat exchanger uses the heat of the exhaust gas to heat the fresh air and let it enter the tank, and the hot air is blown out from the holes in the blades. The warm air accelerates the aerobic fermentation of organic waste and the evaporation of water. After an average of 7 days, the organic waste is converted into high-quality organic fertilizer.

# 博龙高温好氧发酵罐 设备介绍 Product presentation



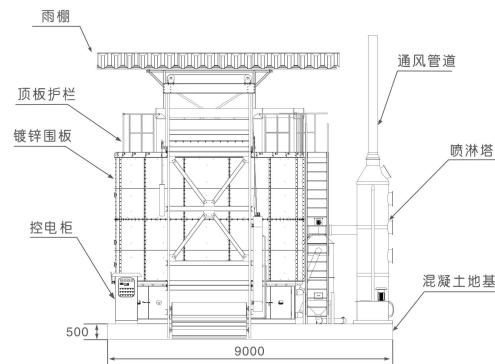
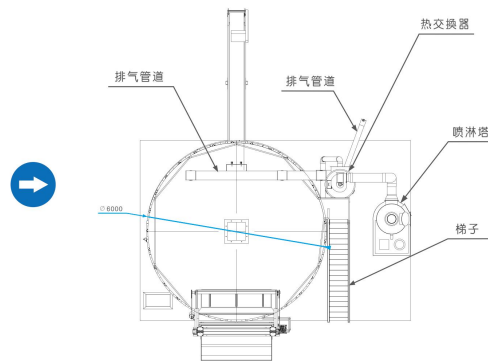
## 高温好氧发酵罐 三视图

Aerobic fermentation tank Three views

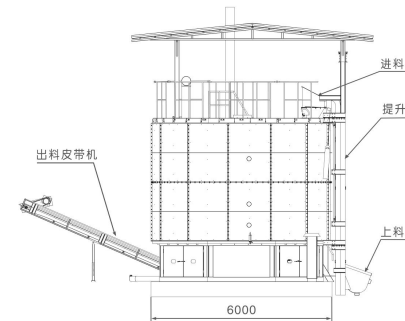
Organic Waste  
Fermentation Tower  
Product presentation



1 发酵罐顶视图  
Top view



2 发酵罐正视图  
Front view



3 高温好氧发酵罐侧视图  
Side view

## 设备组成部分 Equipment components

整个设备结构分为三部分，下部基座部分分布着液压站、涡旋气泵、油缸、加热系统及搅拌轴等；中部为双层隔热罐体、设备自动控制系统、导出装置等，罐体内壁采用304不锈钢板内衬，有效的延长罐体寿命和降低腐熟料残留，中间有聚氨酯发泡剂填充的保温层，外壁由加厚的钢板做支撑罐体；上部由风雨棚、检测平台及排风设施等装置构成。附属设备有自动翻斗提升机、废气过滤除臭系统及热交换系统装置。

The whole equipment structure is divided into three parts. The lower part of the base is distributed with hydraulic stations, scroll pumps, oil cylinders, heating systems and mixing shafts. The middle part is double-layer heat insulation tank, equipment automatic control system, export device, etc. The wall is lined with 304 stainless steel plate, which can effectively extend the life of the tank and reduce the residue of rot clinker. There is a thermal insulation layer filled with polyurethane foaming agent in the middle. The outer wall is made of thick steel plate to support the tank. The upper part is composed of wind and rain shed, detection platform and exhaust facilities. Ancillary equipment includes automatic tipping hoist, exhaust gas deodorization system and heat exchange system.

## 博龙高温好氧发酵罐 技术参数和多角度视图尺寸

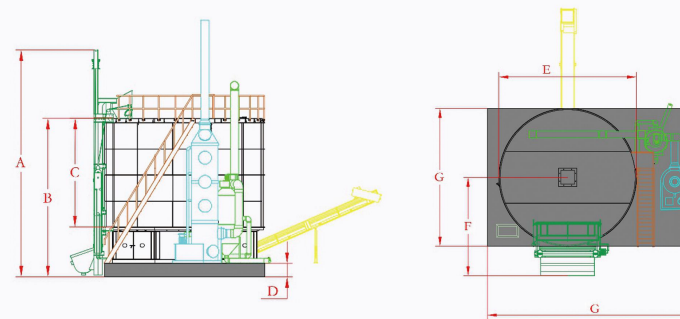
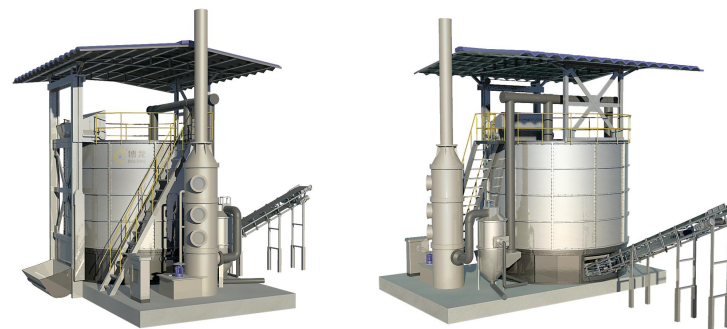


### 技术参数 Technical parameters

型 号	Modle	11FFG-102	11FFG-70
罐体直径 (mm)	Tank diameter	6000	5000
罐体高度 (mm)	Tank height	5500	5350
罐体容积高度 (mm)	Tank volume height	3900	
最小占地面积 (m <sup>2</sup> )	Minimum occupied area	60	45
罐体容积 (m <sup>3</sup> )	Tank volume	102	71
料斗容积 (m <sup>3</sup> )	Hopper volume	1.3	0.9
处理量 (m <sup>3</sup> /天) (包括含水量50-70%粪便、尸体)	Handling capacity (m <sup>3</sup> /day) (including feces and corpses contented with 50-70% water)	8~12	5~8
产出量 (m <sup>3</sup> /天) (含水量30%左右)	Output (m <sup>3</sup> /day) (about 30% water content)	4~5	2~3
电源	Power	380V50Hz	
下部送风机 (KW)	Bottom blower (KW)	12.5*2	12.5*2
液压站 (KW)	Hydraulic station (KW)	7.5+3	
引风机 (KW)	Induced draft fan (KW)	3	3
辅助加热器 (KW)	Auxiliary heater (KW)	4	4
装机功率 (KW)	Installed power (KW)	40.9	39.7
运行功率 (KW)	Operate power (KW)	about29.5	about23

注：此表参数仅供参考，我司不时升级产品，请以实际产品为准。

### 博龙高温好氧发酵罐 多角度视图及尺寸



型 号 / Modle	A	B	C	D	E	F	G
11FFG-70	7840	5810	4060	500	5000	3810	5000*9000
11FFG-102	7940	5910	4060	500	5000	4310	6000*10000

单位：mm

## Company Qualification



## 公司资质

- 先进的质量管理体系，专业的检测能力，强大的合作伙伴。
- Advanced quality management system, specialized detection capability strong partner.
- 通过欧盟CE认证，入选河南省2018—2020年重点培育的智能装备企业。
- Through CE certification of the European Union and is selected as a key intelligent equipment enterprise in henan province from 2018 to 2020.



## 肥料检测报告

专业检测 „Professional fertilizer test report “



畜禽粪便

比如鸡粪、猪粪、牛羊马粪、兔粪、等动物粪便。



畜禽尸体

比如鸡、牛羊马、兔、猪等动物尸体。



餐厨垃圾

生活垃圾：比如餐厨垃圾等。



## 高温好氧发酵罐 生产有机肥料材料 的原料

Production of organic fertilizer materials Raw materials



沼渣

工业废弃物：比如糟、醋糟、木薯渣、糖渣、糠醛渣。



菌菇渣

比如菌菇渣、中药渣等。

## 适用范围 Application scope

应用于有机肥、农药、兽药、食品、化学品、生物、养殖业、陶瓷、耐火材料、塑胶、复合肥等固-固（即粉体与粉体）固-浆（即粉体与胶浆液）的混合，还特别适应粘稠的物料混合。

Used in organic fertilizers, pesticides, veterinary drugs, food, chemicals, biology, aquaculture, ceramics, refractory materials, plastics, compound fertilizer and other solid-solid (powder and powder) solid-slurry (powder and glue slurry) mixing, also particularly suitable for mixing sticky materials.



城市污泥

城市污泥：比如河道淤泥、下水道淤泥等。



作物秸秆

农业废弃物：比如秸秆、豆粕、棉粕等。

## Development advantage 发展优势



- A. 密封上料：畜禽粪污由密闭式鸡粪运输车运输到畜禽粪污处理中心后，保证设备进料（粪污）过程中粪污不落地、不与空气接触造成空气污染，保证无臭味；
- B. 罐体封闭：罐体采用全封闭式，发酵过程不受自然环境温度、湿度的影响，使有机肥生产达到工业化生产标准，防止发酵产生的废气外泄，消除二次污染；
- C. 隔热处理：罐体内部采用高性能保温材料，受外界影响小，确保一年四季发酵；
- D. 热交装置：热交换装置可以充分利用罐体内部自然产生的高温气体，对吸入空气进行初步加热升温，提高了能源利用率，保证发酵效果，降低设备的耗电量，实现节能降耗的目的；
- E. 液压驱动：采用液压驱动，推力大，可以保证罐体内腐熟物满载负荷运行，确保运行安全可靠，维修成本低；传动功率大，低速、平稳，有过载保护能力，传动布置灵活；
- F. 通风泵：高压涡流气泵充分供应发酵罐内发酵过程所需氧气；
- G. 出料机：输料带将发酵罐内已发酵完成的有机肥排出发酵罐；
- H. 排料输送带：可将发酵罐排出器排出的有机肥，输送至仓库及运输车辆。
- I. 电气控制：采用PLC芯片自动与手动相结合控制系统，方便操作控制，一定程度节约人工成本；
- J. 生物滤床除臭系统：是利用微生物菌种生长、繁殖过程吸收有机废气作为营养物质的特性，把废气中的有害成分降解为二氧化碳、水和细胞组成物质，从而达到处理废气的目的。生物滤床除臭适用的浓度范围较广、运行维护简单、无二次污染，并且运行时间越长，微生物对废气更适应，处理效果越好、越稳定；
- K. 寿命长：罐体内壁全部采用304不锈钢，防腐蚀，使用寿命长；
- L. 节约土地：本设备采用立体设计，节省土地的使用面积；
- M. 环保设计：独特的废气处理系统可以将发酵过程中产生的氨气等有害气体有效去除；而发酵后的高品质有机肥又可以施于农田、果园，改善土壤，增加肥力。

## Design advantage

### 1. Clean

Fermentation process is completed inside of tank system . The tank body is double layers designed of sealed tank wall , filled with polyurethane inside, can ferment throughout the year , so effect to environment is minimal. Free of fly problem.

### 2. Harmful gas management

Harmful gas like ammonia are produced during the process of organics fermentation. The exhaust system of fermentation tower can be connected with deodorizing system, so the management is easy and effective with relatively small investment.

### 3. Small

Cover small area, save land ,easy in operation, low in cost  
Special heat exchangers and hydraulic drives effectively reduce electricity consumption

### 4. Low operation cost

Less man power by simple & easy operation  
The special heat exchanger and hydraulic drive reduce electricity consumption.

### 5. Stable

The process is not affected by natural environment (Temperature, humidity, weather). Stable process is possible.  
The process is not affected by the natural environment (temperature, humidity, weather). Make stable process possible.

### 6. Strong Durability

Simplify structure and stainless steel (Most of the parts that come into contact with the waste are made of stainless steel ) make the system has excellent durability . All the parts are up to the industry standard .  
Organic Waste Fermentation Towers can steadily produce high value organic fertilizers in the short period without polluting the earth environment and with low operating costs .Therefore , the system can save energy , save money with zero pollution .

# 博龙高温好氧发酵罐 技术创新点和专利介绍



**层叠式棘轮 STACKED RATCHET**  
专利号Patent number:ZL20172005419.6

博龙独家设计了“层叠式棘轮”，这样能够在相当大的程度上确保运转平稳，避免了万一出现原料暗纹所带来的一系列问题。采用高强度焊接工艺，使层叠式结构棘轮外观像一体式棘轮一样，减少维修棘轮的难度，缩短了畜禽废弃物无害化处理设备的安装工期。

Bolong exclusively designed the "stacked ratchet", which can ensure a stable operation to a considerable extent and avoid a series of problems caused by raw material dark lines. Adopt high-strength welding technology to make the appearance of the ratchet of the stacked structure like an integrated ratchet, reduce the difficulty of maintaining the ratchet, and shorten the installation period of the harmless treatment equipment for livestock and poultry waste.



**热交换除臭装置  
HEAT EXCHANGE DEODORIZATION DEVICE**  
专利号Patent number:ZL 2017 2 005420.9

博龙特别设计了热交换除臭装置，气体通过该装置时，被快速冷凝、进一步减少排放，同时热量被回收重新进入罐内循环利用，降低能源消耗。罐内热能循环利用，避免了加热风机持续加热的电能浪费，起到节能环保的作用；经过除臭系统处理产生的液态有机肥可直接还田使用。

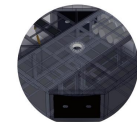
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**进料开门装置  
FEED DOOR OPENING DEVICE**  
专利号Patent number:ZL20172005419.6

该进料开门装置的进料口是双面门，由机械传动机构控制进料门的开、关。倒入原料后，上料斗上升离开控制杆，钢丝绳松开，进料门板靠自重关闭，从而减少了运行人力成本，缩短了加料时间，坚固耐用，延长使用寿命，大幅提高了工作效率。

The feeding opening of the feeding door opening device is a double-sided door, and the opening and closing of the feeding door are controlled by the mechanical transmission mechanism. After pouring the raw materials, the feeding hopper rises away from the control rod, the steel wire rope is loosened, and the feeding door plate is closed by the self weight, thus reducing the operating labor cost, shortening the feeding time, being solid and durable, extending the service life, and greatly improving the working efficiency.



**偶数多边形底座  
EVEN POLYGONAL BASE**  
专利号Patent number:ZL 2017 2 005547.0

采用了等边或不等边的偶数多边形底座设计，利用方管焊接成井字形布局为多个矩形，上中部外观由弧型外板贴附，使畜禽废弃物无害化处理设备更加结实稳固，外观更加灵活美观。同时节约用地。

Equipped with equilateral or unequal polygonal base design, Use square tubes to weld into a T-shaped layout into multiple rectangles, the upper and middle parts are attached by arc-shaped outer plates, making the equipment for harmless treatment of livestock and poultry waste more robust Stable, more flexible and beautiful appearance. At the same time save land.

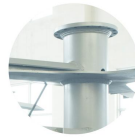
## 博龙高温好氧发酵罐 技术创新点和专利介绍



### 液压提升系统 HYDRAULIC LIFTING SYSTEM 专利号: ZL 2017 2 005546.6

采用液压力距1:6的机械工艺处理方法, 利用液压力量较大, 操纵方便, 使用寿命长, 重量小, 运动惯性小, 反应速度快的自身优势, 加上钢丝绳的易安装, 成本低, 提升过程中稳定性强、提升力量大, 噪音小, 易维修, 使用寿命长, 节能效果显著, 大幅提高工作效率。

Adopting the mechanical process method of hydraulic pressure distance of 1: 6, using the advantages of large hydraulic force, convenient operation, long service life, small weight, small motion inertia, fast reaction speed, plus easy installation of steel wire rope, low cost, Strong stability in the lifting process, large lifting power, low noise, easy maintenance, long service life, significant energy saving effect, greatly improve work efficiency.



### 搅拌翅 STIRRING FIN 专利号 Patent number: ZL20172005418.1

采用菱形的形状特点和30°的倾斜安装角度, 减少搅拌阻力, 利用锥形支撑固定板固定翅叶, 坚固耐用, 延长使用寿命, 把菱形搅拌翅叶内部通风出风方向为后下方, 提高了通风效果, 避免了为提升罐内通风增加通风功耗, 节能效果显著, 可大幅度提高发酵效果。

Adopt rhombic shape characteristics and 30 ° inclined installation angle to reduce stirring resistance Fixing the wing leaf with the conical support fixing plate, sturdy and durable, extend the service life. The ventilation direction of the diamond-shaped stirring wing blades is the lower back, which improves the ventilation effect and avoids increasing the power consumption of the ventilation for improving the ventilation in the tank. The energy-saving effect is remarkable, which can greatly improve the fermentation effect.



### 均匀卸料装置 UNIFORM DISCHARGE DEVICE 专利号 Patent number: ZL20172005419.6

控制卸料量, 防止生熟料一起混合下泄, 为了提高处理质量, 采用控制双侧卸料口卸料方式, 加大了卸料速度, 缩短卸料时间, 提高工作效率。

Control the discharge volume, prevent the raw clinker from mixing and leaking together, and improve the processing quality: adopt the discharge method of controlling the double-side discharge port, increase the discharge speed, shorten the discharge time, and improve the work efficiency.



### 断桥隔热技术运用 BROKEN BRIDGE INSULATION TECHNOLOGY APPLICATION 专利号 Patent number: ZL 2018 2 0461072.X

在选用导热系数极低的特殊材料作为内外壁间填充保温材料的同时, 还创造性地借鉴行业外新技术、对罐体进行了独具博龙特色的额外隔热设计、进一步降低了内外壁间热量的传导。

While Bolong chose polyurethane with extremely low thermal conductivity as the insulation material for filling between the inner and outer walls, it also creatively borrowed new technologies from outside the industry and carried out additional insulation design with unique Bolong characteristics for the tank body to further reduce the Heat conduction between outer walls.

# 博龙高温好氧发酵罐 技术创新点和专利介绍



推臂运行同步装置  
PUSH ARM OPERATION SYNCHRONIZER  
专利号:ZL 2018 2 0065791.X

本专利的发明保证了油缸同步运行和推臂运行的安全，减少了接近开关的使用和维修量，化繁为简，可靠性高，减轻了推臂套的磨损，延长了推臂的使用寿命，提高了设备的使用效率。

The invention of this patent guarantees the safety of the synchronous operation of the oil cylinder and the operation of the push arm, reduces the use and maintenance of the proximity switch, simplifies the complexity, has high reliability, reduces the wear of the push arm sleeve, and extends the service life of the push arm, Improve the efficiency of the equipment.



推动位置检测系统  
PUSH THE POSITION DETECTION SYSTEM  
专利号:ZL 2019 2 0375666.8

本专利设置了检测传感器，能够检测到弹簧的工作状况，当啮合处弹簧损坏时，系统发出警报，设备停止工作，避免设备损坏，保障设备的正常运行。

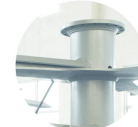
The patent is provided with a detection sensor, which can detect the working condition of the spring. When the spring at the meshing position is damaged, the system issues an alarm and the equipment stops working to avoid equipment damage and ensure the normal operation of the equipment.



落料开门新装置  
NEW DEVICE OF MATERIAL FALLING AND DOOR OPENING  
专利号:ZL 2019 2 0375615.0

目前，畜禽废弃物无害化处理设备的开门机构多采用手动机械设计方案，此设计方法系统需设有专人照看或增加必要的影像器具，这样就增加了设备的成本和运行人工成本。此专利科学的利用反作用力和预应力，使进料门不会产生强力撞击，且会自行关闭，减少运行成本，降低了设备成本价格，缩短了加料时间，节约了能源，延长了使用寿命，提高了工作效率。

This design method system needs to be provided with special personnel to look after or add necessary image devices, which increases the cost of equipment and operation labor cost. This patent uses reaction force and prestress scientifically, so that the feeding door will not produce strong impact, and will close by itself, reduce operation cost, reduce equipment cost price, shorten feeding time, save energy, extend service life and improve work efficiency.



搅拌翅法兰连接装置  
STIRRING FIN FLANGE CONNECTION DEVICE  
专利号:ZL 2019 2 0375666.8

本专利采用了搅拌翅连接法兰及支撑连接板的组装方式，装卸方便，解决了运输难的问题，易于维修，节省工效，可大幅提高使用效果。

The patent adopts the assembly method of the stirring fin connecting flange and the supporting connecting plate, which is convenient to load and unload, solves the problem of difficult transportation, is easy to maintain, saves work efficiency, and can greatly improve the use effect.

## 博龙高温好氧发酵罐 技术创新点和专利介绍



双锥体旋风除尘排污装置  
DOUBLE VERTEBRAL BODY CYCLONE DUST REMOVAL AND DRAINAGE DEVICE  
专利号:ZL 2018 2 0263705.6

目前普遍使用的畜禽废弃物无害化处理设备加热系统设置采用功率较大的电机和风机，这样就造成了发酵成本的增加，也起不到节能环保的效果。本专利采用了先进的旋风式换热排污除尘原理，将畜禽废弃物无害化处理设备发酵的热能循环利用，避免了空气的二次污染，降低了能耗，延长使用寿命，提高了工作效率。

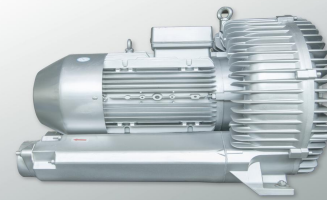
This patent adopts the advanced cyclone heat exchange sewage and dust removal principle to recycle the heat energy fermented by the harmless treatment equipment of livestock and poultry wastes, avoiding secondary air pollution, reducing energy consumption, prolonging service life and improving work effectiveness.



双锥体旋风排污除尘器  
DOUBLE CONE CYCLONE BLOWDOWN DUST COLLECTOR  
专利号:ZL 2018 2 2280270.9

由于本专利采用了先进的旋风式换热排污除尘原理，将畜禽废弃物无害化处理设备发酵的热能循环利用，并将经过旋风式排污除尘处理后的液态有机肥能直接还田利用，避免了空气的二次污染，降低了能耗，延长使用寿命，提高了工作效率。

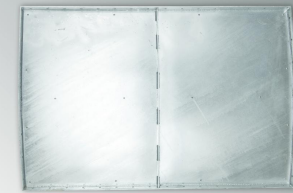
Because this patent adopts the advanced cyclone heat exchange sewage and dust removal principle, the heat energy of the livestock and poultry waste harmless treatment equipment is recycled, and the liquid organic fertilizer after the cyclone sewage and dust treatment can be directly returned to the field. It avoids secondary air pollution, reduces energy consumption, extends service life, and improves work efficiency.



大功率热风机  
HIGH-POWER HOT AIR FAN

博龙设备采用了大功率的热风机，能够在短时间内快速爆入热空气，加快发酵进行。该风机不是全天候启动，只有在需要时才会运行，当发酵过程温度合适时就停止，因此，功率足够大并不多消耗电能，只是缩短运行时间，大大提高设备效率。

Bolong equipment uses a high-power hot air fan, which can quickly explode hot air in a short time to speed up the fermentation. The fan is not started all-weather, it will only run when it is needed, and it will stop when the temperature of the fermentation process is appropriate. Therefore, the power is large enough and does not consume much electricity, but only shortens the running time and improves the efficiency of the equipment.



热浸锌  
HOT DIP ZINC

博龙对产品外壁防腐采用了热浸锌工艺，能极大程度地降低外壁被腐蚀的几率和速度。该热浸锌工艺技术、设备要求高，因此，博龙公司把该处理工艺作为升级版的可选项，供用户自行选择。

Bolong Company adopts the hot-dip zinc process for the corrosion protection of the outer wall of the product, which can greatly reduce the chance and speed of corrosion of the outer wall. The hot dip galvanizing process technology and equipment requirements are high. Therefore, Bolong Company regards this process as an option for the upgraded version for users to choose.

## 项目安装实例展示

Demonstration of project installation examples

### 项目安装实例

博龙畜牧机械 „Installation Example of Project “



#### 1 国内某大型种猪养殖集团项目

A Domestic Listed Pig Breeding Group

#### 2 国内某大型蛋鸡养殖公司项目

A Large Domestic Chicken Breeding Group



“ 博龙，创有机肥生产线精品工程，  
您身边粪污处理、餐厨垃圾处理等环境  
问题的好帮手！ “

Bolong, Creating the Excellent Project of Organic Fertilizer Production Line, Environmental protection of excrement disposal and kitchen waste disposal around you. A good helper to the problem!

## 项目安装实例展示

Demonstration of project installation examples

### 项目安装实例

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#### 3 国内某大型肉种鸡养殖公司项目

A Chicken Breeding Company  
从2017年8月-2020年5月，8批共安装14台；



“ Bolong, Creating the Excellent Project of Organic Fertilizer Production  
Line,Environmental protection of excrement disposal and kitchen waste  
disposal around youA good helper to the problem! “

#### 4 国内某大型种猪养殖集团项目

A Domestic Listed Pig Breeding Group

## 项目安装实例展示

Demonstration of project installation examples

### 项目安装实例

博龙畜牧机械 „Installation Example of Project “

“ 博龙，创有机肥生产线精品工程，  
您身边粪污处理、餐厨垃圾处理等环境  
问题的好帮手！ “



**5** OEC餐厨生活垃圾处理项目  
A Large Domestic Broiler Breeding Group



**6** 国内某大型蛋鸡养殖公司项目  
A Large Layer Breeding Company  
2016年8月-2020年4月，3批共安装5台



**7** 国内某大型肉种鸡养殖集团项目 A Domestic Listed Pig Breeding Group  
2019年8月-2020年8月，5批共安装10台

**8** 国内某大型肉鸡养殖集团项目 A Large Domestic Chicken Breeding Group  
2019年8月-2020年，共安装60台



“ Bolong, Creating the Excellent Project of Organic Fertilizer Production  
Line, Environmental protection of excrement disposal and kitchen waste  
disposal around youA good helper to the problem! “



据细节而观大势  
精益求精 客户至上  
发展环境科技 创造美好生活

## 品质服务

### Quality service

鹤壁市博龙畜牧机械有限公司本着“用户的满意才是博龙的成功”的经营理念，除采用先进可靠的设备，合理完善的工艺等硬件外，更有完整的培训手段、优质的服务体系作后盾，保证博龙机械所建的工程质量，同时降低生产能耗和维护成本，使用户在激烈的市场竞争中立于不败之地。

保修期内服务承诺：

1. 将博龙设备操作技术、维护保养技术等培训用户至能独立操作、使用和维护；
2. 设备安装完成，提供首次发酵服务，并培训设备操作人员完全学会发酵技术，保证相关人员能够独立操作；
3. 提供 7×24 小时热线电话服务，并指定专人负责上门受理调试日常维护及平时协助甲方维护检测等工作；
4. 及时解答技术疑难问题，若用户不能解决的技术问题，我公司及时派人到用户现场协助指导；
5. 我单位提供的软件升级时，将主动上门为用户提供免费升级服务；
6. 我方保证坚决按照国家法律法规及与贵公司签定的合同条款，严格执行保修服务。保修期内，如因我方原因造成的设备质量问题，我们将派遣技术人员，对贵公司的项目提供免费保修服务，免费提供零部件；如因操作不当或其它人为因素造成的设备故障或损坏，用户不能自己解决的，我公司免费派人上门协助维修解决，更换的零部件只收取成本费；
7. 对于用户出现排除不了的故障，直接影响生产的情况下，我公司将在 2 小时内响应，在 24 小时内派人至现场解决；
8. 博龙公司10台售后服务车，320 天在全国随时为客户提供产品升级及设备维护服务。

全国客服热线：400 800 9989

集科研开发、生产制造和技术服务  
为一体的科技型制造企业。

## Quality service

Hebi Bolong Livestock Husbandry Machinery Co., Ltd. is based on the business philosophy of "customer satisfaction is Bolong's success". In addition to advanced and reliable equipment, reasonable and perfect hardware, etc. Backed by complete training means and high-quality service system, it guarantees the engineering quality built by Bolong Machinery, and at the same time reduces production energy consumption and maintenance costs, enabling users to be invincible in the fierce market competition.

### Service commitment during the warranty period:

1. Train users of Bolong equipment operation technology and maintenance technology to be able to operate, use and maintain independently;
2. After equipment installation completed ,provide the first fermentation service and train the equipment operator fully learn the fermentation technology to ensure that the relevant personnel can operate independently;
3. Provide a 7 × 24-hour hotline service, and designate a person to be responsible for the on-site commissioning, routine maintenance, and assistance to the buyer for maintenance and testing;
4. Answer technical problems in time , If the technical problems cannot be solved by the user, our company will promptly send someone to the user site to assist and guide;
5. When the software provided by our unit is upgraded, we will take the initiative to provide free upgrade service for users;
6. We promise to strictly implement the warranty service in accordance with the contract terms signed by the country and your company. During the warranty period, if the quality of the equipment is caused by our reasons, we will send technical personnel to provide free warranty service for your company's projects and provide free parts; for example, equipment failure or damage caused by improper operation or other human factors If the user can't solve it by himself, our company will send someone to assist you in repairing and repairing for free. The replacement parts will only be charged for the cost;
7. In the case of a failure that cannot be eliminated by the user, which directly affects production, our company will respond within 2 hours and dispatch people to the site to solve it within 24 hours;
8. Bolong Company's 10 after-sales service vehicles provide customers with product upgrade and equipment maintenance services at any time in the country for 320 days.

National Customer Service Hotline : 400 800 9989

A scientific and technological manufacturing enterprise integrating  
scientific research and development, manufacturing and technical services

VIEW THE GENERAL TREND  
ACCORDING TO DETAILS  
**KEEP IMPROVING, CUSTOMER FIRST**

Developing Environmental Science , Technology to Create a Better Life

