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DIGITAL BREEDING



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品质上乘

以正为本

海外技术

服务至诚

COMPANY OVERVIEW

公司简介



上海正诚机电制造有限公司成立于1994年,是泰国正大集团独资企业,专注于农牧食品业项目承揽和设备供应,上海正诚是集整厂方案设计、生产工艺设计、建筑结构设计、土建施工、钢结构制造与安装、设备制造安装与调试、售后服务为一体的整体解决方案的提供者。

为了推动中国饲料厂、养殖场、食品厂产品质量的提高和生产效率的提升,我们依托正大集团全球视野的优势,不断引进国际前沿的理念、技术、工艺和设备,在自动化、智能化、可视化、可追溯化、生产安全、食品安全方面的经验积累,能够在满足业主个性化需求的同时,为业主创造价值。

公司成立29年来,积累了丰富的农牧食品业项目的建设经验,建设了150多座饲料厂、300多座畜禽养殖场、数十座水产养殖场、1000万平米的钢结构厂房。

主营范围

各类养殖场的成套设备 各类饲料厂的成套设备 肉类食品厂的成套设备 粮食仓储的成套设备 钢结构厂房和仓库

设备及建筑建构的设计制造、安装、施工的总承包



运用设计、采购、施工三位一体的管理体制,对工程质量、安全、工期、造价全面负责。

COMPANY OVERVIEW

公司简介

公司愿景

做集团农牧食品业设备保障平台 做世界农牧食品业设备整体解决方案

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公司使命

我们为饲料厂/养殖场/食品厂提供精良的成套装备和EPC交钥匙服务 我们的数智化装备和服务,能够帮助用户实现经营生产的高效益 我们致力于促进肉类食品行业向环境友好/资源节约方向快速良性发展

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六大核心价值观

三利原则(利国、利民、利企业) 快速优质 化繁为简 接受变革 不断创新 正直诚信







DEVELOPMENT HISTORY

发展历程

1994

4月20日公司正式成立,主要业务涵盖饲料厂整厂交钥匙工程及钢结构工程

On April 20, the company was officially established, Themain business covers the whole feed plant Turnkey project and steel structure project.

2006

引进欧美先进技术,推广并承建 现代化养殖场、养鸡场、养虾场

Introduce European and American advanced technology, promote and undertake the construction of modern farms, chicken farms and shrimp farms.

2016

- · 获得上海市高新技术企业称号
- 按照国际项目管理程序承建的第
- 一个EPC项目——江苏邳州15000头养殖场顺利竣工
- Won the title of Shanghai high tech enterprise.
- The first EPC project undertaken in accordance with international project management procedures – 15000 head farms in Pizhou, Jiangsu Province, was successfully completed.

2018

·代表饲料厂4.0国际水平的内蒙古36万吨饲料厂顺利竣工

·成立电控研发中心,助推饲料 厂、养殖场、食品厂提高自动化和 智能化水平

• The 360000 ton feed plant in Inner Mongolia, representing the international level of feed plant 4.0, was successfully completed.

• Set up an electronic control R & D center to boost feed factories, farms and food factories to improve the level of automation and intelligence.

2020

|投资建成慈溪正大谷瑞现代化 |畜禽设备生产基地,实现工厂 |数字化智能化转型

Invest and build Cixi CP GSImodern livestock and poultry equipment production base to realize the digital and intelligent transformation of the factory.

1996

公司引进美国技术,率先在中 国推广高层钢结构饲料厂厂 房,显著提高建设速度

The company introduced American technology and took the lead in promoting the high-rise steel structure feed plant in China, significantly improving the construction speed

2015

控股上海鑫百勤专用车辆有限公司 Holding Shanghai xinbaiqin Special Vehicle Co., Ltd

2017

·成立上海正诚牧正建筑工程分公司,获建筑工程三级总承包资质

·与美国500强企业AGCO-GSI公司成立合资公司,实现欧美先进畜牧机械国产化

· Shanghai Zhengcheng muzheng construction engineering branch was established and obtained the three-level general contracting qualification of construction engineering.

• Establish a joint venture with agco-gsi, a top 500 enterprise in the United States, to realize the localization of advanced animal husbandry machinery in Europe and the United States.

2021

投资建成正大 中国智能研发中心 Invest to build CP(China) intelligent R & D Center

2019

· 与日本FUKUDA公司合资成立上 海正福食品机械工程有限公司,进 军食品机械领域

·成立上海正诚江苏分公司,加强 产业链整合

· Shanghai Zhengfu Food Machinery Engineering Co., Ltd. was jointly established with Japan Fukuda company to enter the field of food machinery

• Establish Shanghai Zhengcheng Jiangsu branch and strengthen the integration of industrial chain.





QUALIFICATION HONOR

资质荣誉











高新技术企业



"专精特新"中小企业

中国畜牧业协会畜牧工程分会-理事单位 十大猪场环保模式高效践行品牌 上海市"松江区企业技术中心"认定 上海市金属结构行业协会-理事单位 上海市和谐劳动关系达标企业



十大猪场环保模式高效践行品牌



建筑业企业资质证书

饲料工业协会会员单位 上海市高新技术企业协会-副会长单位 上海市松江区"专精特新企业"称号 上海市金属结构行业诚信企业证书 重合同守信用单位



OUR TEAM 我们的团队



- ●有来自帝国理工学院、东北大学的硕士;
- ●专业涉及软件工程、计算机科学与技术、机器人;
- ●由10年以上软件开发经验的工程师带队;
- ●具有丰富的养殖行业经验,熟悉猪场工艺及电控配套。
- · Master's degree from Imperial College of technology and Northeast University;
- · Majors involve software engineering, computer science and technology, and robotics;
- · Led by engineers with more than 10 years of software development experience;
- Have rich experience in the breeding industry, and be familiar with the pig farm process and electric control.

SYSTEM ARCHITECTURE OF DIGITAL SWINE FARM 数字化猪场的系统架构



by 文化猪场的功能实现

1 视频监控 Video Surveillance

- ●周界,舍内,通道监控;
- AI 数猪:
- ●智能巡检机器人;
- ●异常报警。
- · Perimeter, interior and channel monitoring;
- · AI counts swines;
- Intelligent patrol robot;
- Abnormal alarm.

- **2** 环境监控
 Environmental Monitoring
- ●舍内温度、湿度、CO2、NH3、压力采集;
- ●通风控制:
- ●云端数据应用。
- Collection of temperature, humidity, CO2,
 NH3 and pressure in the room;
- Ventilation control;
- · Cloud data application.

生物防疫控制 Biological epidemic control

●通过车牌识别、人脸识别,控制车辆、人员的洗消。

· Control vehicle and personnel washing through license plate recognition and face recognition.

4 养殖管理

Breeding Management

- ●建立猪电子档案,并对各生理状态判断并记录、分析。
- Establish electronic archives of swines, and judge, record and analyze the physiological states.

人员管理 Personnel management

- ●对猪场的组织架构、人员考勤、绩效进行管理。
- Manage the organizational structure, personnel attendance and performance of the swine farm.

物资管理Material Management

- ●对猪场的疫苗、饲料、水耗、电耗等物资进行管理及统 计分析。
- Manage and statistically analyze the materials such as vaccine, feed, water consumption and power consumption of the swine farm.

-1- -2-

FUNCTION OF DIGITAL SWINE FARM - VIDEO MONITORING 数字化猪场的功能─视频监控



实现整场无死角监控。
Realize no dead angle monitoring in the whole field.



通过手机随时随地掌握猪场情况。 Grasp the swine farm situation anytime and anywhere through mobile phones.

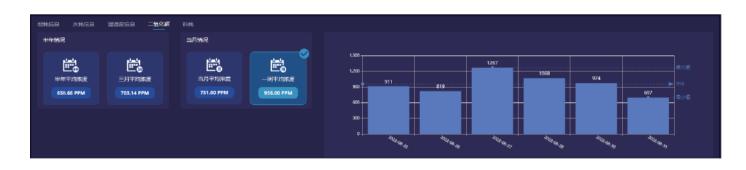


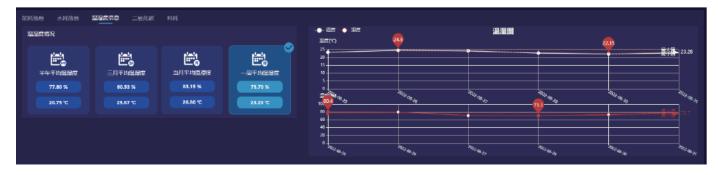
实时查看每个圈栏猪只的活动情况。 Check the activities of swines in each pen in real time.

THE FUNCTION OF DIGITAL SWINE FARM ENVIRONMENTAL DETECTION AND CONTROL 数字化猪场的功能—环境检测及控制

通过与环控系统的对接,可以实时查看猪舍的温度、湿度、二氧化碳、风速、负压、设备的运行状态以及各种报警信息。 Through docking with the environmental control system, the temperature, humidity, carbon dioxide, wind speed, negative pressure, equipment operation status and various alarm information of the swine house can be viewed in real time.





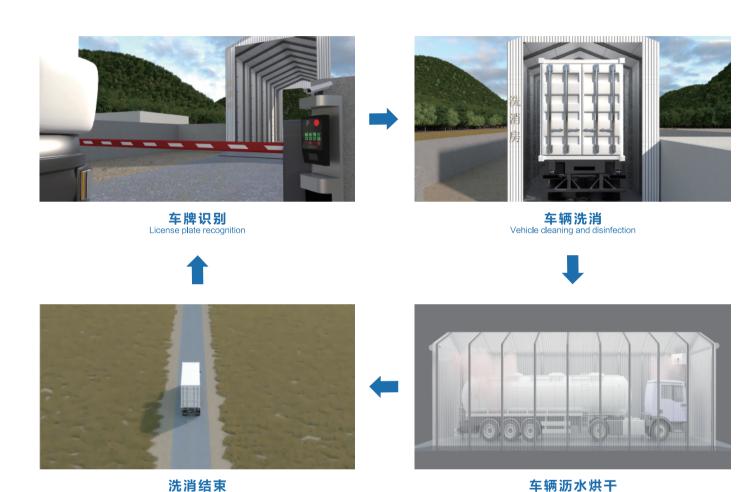


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FUNCTION OF DIGITAL SWINE FARM BIOLOGICAL EPIDEMIC PREVENTION CONTROL 数字化猪场的功能─生物防疫控制

车辆防疫控制

Vehicle epidemic prevention control



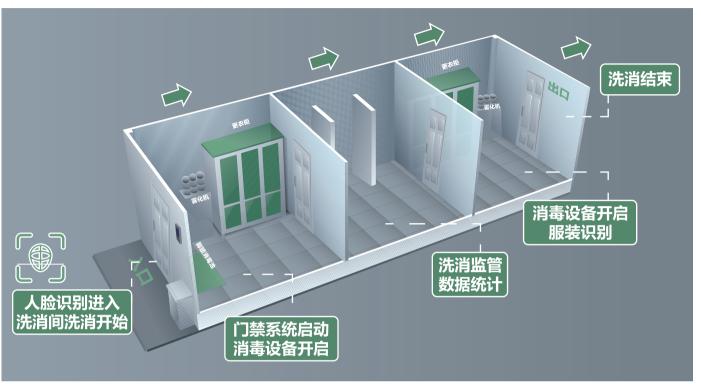
车辆通过车牌识别,与消毒棚卷帘门关联,自动开启洗消流程。

The vehicle is associated with the roller shutter door of the disinfection shed through the license plate recognition, and the washing process is automatically started.

FUNCTION OF DIGITAL SWINE FARM BIOLOGICAL EPIDEMIC PREVENTION CONTROL 数字化猪场的功能─生物防疫控制

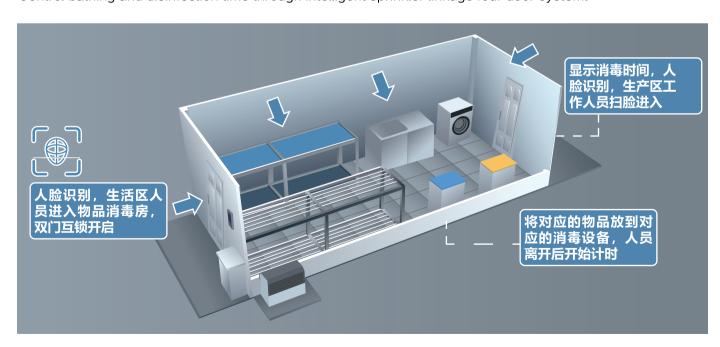
人员及物资防疫控制

Epidemic prevention control of personnel and materials



通过智能花洒联动四门系统,控制洗浴及消毒时间。

Control bathing and disinfection time through intelligent sprinkler linkage four door system.



物资通过智能物品洗消通道,自动控制洗消时长。

Materials pass through the intelligent article washing channel, and the washing time is automatically controlled.

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THE FUNCTION OF DIGITAL SWINE FARM BREEDING MANAGEMENT 数字化猪场的功能—养殖管理



电子耳标与RFID读卡器实现猪只管理,可追溯猪只从出生→饲养 →屠宰 →销售的整个过程;

记录猪只个体的饲料用料、免疫记录、健康状况、出栏记录等日常信息。

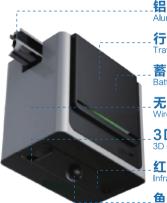
The electronic ear tag and RFID card reader realize pig manage—ment, which can trace the whole process of swine from birth \rightarrow feeding \rightarrow slaughter \rightarrow sales;

Record the daily information of individual swines, such as feed materials, immune records, health status, listing records, etc.



通过AI摄像头,在出猪房自动数猪并统计记录。

Through the AI camera, the swines will be counted and recorded automatically in the pig room.



铝合金滑道

行走机构

蓄电池

Battery

无线传输 Wireless transmissio

Wireless transmission
3D结构光相机

红外热成像相机 Infrared thermal imaging came

- **鱼眼相机** Fish eye camera 通过智能巡检,

对猪只进行测温与估重。

Through intelligent inspection,

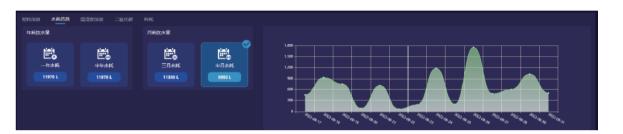
The temperature and weight of pigs were measured.

THE FUNCTION OF DIGITAL SWINE FARM MATERIAL MANAGEMENT 数字化猪场的功能—物资管理

电耗 Power consumption



水耗



料耗 Material consumption





-7-

THE FUNCTION OF DIGITAL SWINE FARM PERSONNEL MANAGEMENT 数字化猪场的功能—人员管理

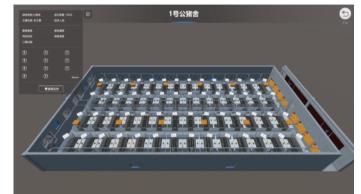




FUNCTIONS OF DIGITAL SWINE FARM REPORT AND DATA ANALYSIS 数字化猪场的功能─报表及数据分析

| 报表 | 报表内容分析 |
|--|---|
| Report form | Report content analysis |
| 母猪性能报表 | 生成周期、年产仔数量、每窝产仔数量、成活率、配种率 |
| Sow performance report | Generation cycle, annual litter size, litter size per litter, survival rate and mating rate |
| 公猪性能报表 | 健康状况、精液质量、生长周期 |
| Boar performance report | Health status, semen quality, growth cycle |
| 母猪健康报表 | 生长周期、体重、体温、采食、饮水、当前生理状况 |
| Sow Health Report | Growth cycle, body weight, body temperature, food intake, drinking water, current physiological status |
| 仔猪报表 Piglet Report | 仔猪总数、生长周期、待出栏仔猪数量、防疫情况、属于哪投母猪、所在猪舍 Total number of piglets, growth cycle, number of swine lets to be released, epidemic prevention, which sow to invest in, and the swine house |
| 猪舍报表 | 各猪舍中各栏位猪的健康状况、生理状况一览、电耗、水耗 |
| Swine house report | Health status, physiological status, power consumption and water consumption of swines in each pig house |
| 猪只生理周期报表 Swine physiological cycle Report | 一览各猪舍母猪的生理情况,待查情母猪、待生成母猪、待转栏母猪及其所在栏位 List the physiological conditions of sows in swine houses, sows to be investigated, sows to be produced, sows to be transferred and their fields |
| 疫苗使用情况报表 | 出入库记录、安全库存预警 |
| Vaccine usage report | Warehouse in and warehouse out records, safety stock warning |
| 饲料存量及耗用报表 | 出入库记录,异常耗用、安全库存预警 |
| Feed stock and consumption report | Warehouse in and warehouse out records, abnormal consumption, safety stock warning |
| 电耗及水耗报表 | 水电耗用数据分析 |
| Power and water consumption report | Analysis of water and electricity consumption data |

FUNCTIONS OF DIGITAL SWINE FARMS VIRTUAL REALITY AND DIGITAL TWINS 数字化猪场的功能─虚拟现实与数字孪生





通过采用数字孪生和虚拟显示技术,对猪场进行3D建模,可以在猪场任意位置巡游。

By using digital twin and virtual display technology, 3D modeling of the swine farm can be carried out, and you can cruise anywhere in the swine farm.

多终端互联

Multi terminal interconnection



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